A 8630-2 U 10/85

1985 ELECTRIC POWER SUPPLY & DEMAND

FOR 1985-1994

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL

North American Electric Reliability Council

ECAR
East Central Area Reliability Coordination Agreement

ERCOT
Electric Reliability Council of Texas

MAAC
Mid-Atlantic Area Council

MAIN
Mid-America Interpool Network

MAPP
Mid-continent Area Power Pool

NPCC
Northeast Power Coordinating Council

SERC
Southeastern Electric Reliability Council

SPP
Southwest Power Pool

WSCC
Western Systems Coordinating Council

AFFILIATE

ASCC
Alaska Systems Coordinating Council

The North American Electric Reliability Council (NERC) was formed by the electric utility industry in 1968 to promote the RELIABILITY of bulk power supply in the electric utility systems of North America. NERC consists of nine Regional Reliability Councils and one affiliate encompassing virtually all of the power systems in the United States and Canada.

RELIABILITY, in a bulk power electric system, is the degree to which the performance of the elements of that system results in power being delivered to consumers within accepted standards and in the amount desired. The degree of reliability may be measured by the frequency, duration, and magnitude of adverse effects on consumer service.

Bulk power electric system reliability can be addressed by considering two basic and functional aspects of the bulk power system—adequacy and security.

ADEQUACY is the ability of the bulk power electric system to supply the aggregate electrical power and energy requirements of the consumers at all times, taking into account scheduled and unscheduled outages of system components.

SECURITY is the ability of the bulk power electric system to withstand sudden disturbances such as electric short circuits or unanticipated loss of system components.

Copyright © 1985 by North American Electric Reliability Council. All rights reserved.

1985 ANNUAL DATA SUMMARY REPORT FOR THE REGIONAL RELIABILITY COUNCILS OF NERC

ELECTRIC POWER SUPPLY & DEMAND

1985–1994

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL

CONTENTS

PAGE	
4	**INTRODUCTION**
6	**ANNUAL NET ENERGY FOR LOAD**
8	**PEAK DEMANDS** SUMMER WINTER
12	**PLANNED RESOURCES** SUMMER WINTER
16	**INSTALLED GENERATING CAPACITY**
36	**ANNUAL ELECTRIC GENERATION**
56	**FOSSIL FUEL REQUIREMENTS** COAL OIL NATURAL GAS
82	**PLANNED GENERATING UNIT ADDITIONS AND RETIREMENTS**
104	**PLANNED GENERATING UNIT CONVERSIONS**
106	**PLANNED TRANSMISSION LINE ADDITIONS** MILES EXISTING, 12/31/84 PLANNED ADDITIONS, 1985 - 1989 PLANNED ADDITIONS, 1990 - 1994 TOTAL MILES, 12/31/94

INTRODUCTION

One of the major activities of the Electric Council is the annual collection and publication of utility forecasts of electric power supply and demand. This **Electric Power Supply and Demand** report provides these data in a concise and useful format to satisfy the needs of a wide variety of users.

The data summarized in this report are aggregations of the forecasts developed early in 1985 by the individual utility members of the Regional Reliability Councils.

Data for the MAIN, NPCC, SERC, SPP, and WSCC Regions are broken down and presented in Subregional tables following each Regional table. The Regional and Subregional abbreviations used in the report are identified in the listing which follows.

In this report, reference to the U.S. refers to the **contiguous** United States; reference to Canada refers to the seven provinces bordering the contiguous U.S. Where seasons are designated, SUMMER is defined as that period of the year between June 1 and September 30; WINTER is defined as that period between December 1 and March 31. Appropriate footnotes have been included.

Questions about this report can be directed to:

Blaine Vincent, Jr.
Senior Engineering Analyst
North American Electric
Reliability Council
Research Park, Terhune Road
Princeton, NJ 08540
(609) 924-6050

REGION	SUBREGIONS
ECAR East Central Area Reliability Coordination Agreement	NONE
ERCOT Electric Reliability Council of Texas	NONE
MAAC Mid-Atlantic Area Council	NONE
MAIN Mid-America Interpool Network	**CMNWLTH. ED.**—Commonwealth Edison Co. **E. MISSOURI**—East Missouri Group **SO. CENT. ILL.**—South Central Illinois Group **WIUM**—Wisconsin Upper Michigan Systems Group
MAPP Mid-continent Area Power Pool	NONE
NPCC Northeast Power Coordinating Council	**NEW YORK**—New York Power Pool **NEW ENGLAND**—New England Power Pool **NEW BRUNSWICK**—New Brunswick Electric Power Commission **ONTARIO**—Ontario Hydro **QUEBEC**—Hydro Quebec
SERC Southeastern Electric Reliability Council	**FLORIDA**—Florida Subregion **SOUTHERN**—Southern Subregion **TVA**—Tennessee Valley Authority Subregion **VACAR**—Virginia-Carolinas Subregion
SPP Southwest Power Pool	**SOUTHEAST**—Western Mississippi, Southeastern Texas, Eastern Arkansas, Southeastern Missouri and Louisiana. **WEST CENTRAL**—Western Arkansas, the Texas Panhandle, Northeast Texas, and Oklahoma. **NORTHERN**—Western Missouri and Kansas.
WSCC Western Systems Coordinating Council	**NWPP**—Northwest Power Pool Area **RMPA**—Rocky Mountain Power Area **AZ-NM**—Arizona-New Mexico Power Area **CA-SNV**—California-Southern Nevada Power Area

ANNUAL NET ENERGY FOR LOAD

The **Annual Net Energy for Load (NEL)** data represent the net annual electrical energy needed to serve the projected customer demands. NEL is comprised of net electrical energy generated plus electricity purchased minus electricity sold to other utilities.

These data are reported directly to the Electric Council.

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
NET ELECTRICAL ENERGY REQUIREMENTS BY REGION - MILLION KWH

*** NET ENERGY FOR LOAD ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	383,029	390,900	397,800	405,400	416,600	426,100	433,600	441,600	449,300	457,100	465,200
ERCOT	185,283	193,347	199,590	204,543	212,127	220,366	229,187	238,149	247,401	256,875	266,528
MAAC	186,034	188,274	191,443	192,725	196,609	200,431	204,257	208,105	211,969	215,810	219,663
MAIN	170,930	174,550	177,993	181,313	184,560	188,077	191,786	195,528	199,187	202,899	206,640
MAPP - U.S.	105,378	109,224	112,458	114,852	117,819	120,722	123,872	126,750	129,750	132,839	135,780
NPCC - U.S.	217,455	221,149	225,249	227,790	231,276	234,176	237,579	242,091	247,011	250,851	255,987
SERC	502,915	517,136	530,580	544,081	564,095	579,042	596,758	610,898	625,633	639,586	654,288
SPP	225,642	228,195	232,887	238,658	245,242	252,222	259,140	266,077	274,073	281,264	288,376
WSCC - U.S.	468,937	476,608	490,553	504,263	516,154	526,927	539,604	551,054	563,913	575,907	588,150
NERC - U.S.	2,445,603	2,499,383	2,558,553	2,613,625	2,684,482	2,748,063	2,815,783	2,880,252	2,948,237	3,013,131	3,080,612
MAPP - CANADA	25,665	25,890	26,592	28,053	28,969	29,743	30,472	31,134	31,942	32,738	33,539
NPCC - CANADA	228,015	234,016	243,333	251,903	260,388	269,694	277,392	286,418	294,589	301,351	308,595
WSCC - CANADA	66,929	68,678	71,153	73,053	75,397	78,418	81,489	84,412	86,655	88,520	90,680
NERC - CANADA	320,609	328,584	341,078	353,009	364,754	377,855	389,353	401,964	413,186	422,609	432,814

NET ELECTRICAL ENERGY REQUIREMENTS BY SUBREGION - MILLION KWH

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	124,338	125,960	128,268	129,677	131,120	132,227	133,571	135,249	137,321	139,160	141,348
NEW ENGLAND	93,117	95,189	96,981	98,113	100,156	101,949	104,008	106,842	109,690	111,691	114,639
NPCC - U.S.	217,455	221,149	225,249	227,790	231,276	234,176	237,579	242,091	247,011	250,851	255,987
NEW BRUNSWICK	9,837	10,227	10,560	10,936	11,342	11,698	11,981	12,278	12,581	12,878	13,173
ONTARIO	112,293	114,535	117,249	120,742	123,983	127,006	129,796	133,873	137,922	141,008	144,358
QUEBEC	105,885	109,254	115,524	120,225	125,063	130,990	135,615	140,267	144,086	147,465	151,064
NPCC - CANADA	228,015	234,016	243,333	251,903	260,388	269,694	277,392	286,418	294,589	301,351	308,595
FLORIDA	103,731	107,224	110,588	114,194	117,930	121,743	125,951	129,460	133,260	137,092	140,847
SOUTHERN	120,102	121,597	123,391	127,039	130,590	133,849	139,068	141,971	144,918	147,708	150,644
TVA	110,839	113,106	115,328	119,134	125,832	127,382	129,785	132,103	134,441	136,036	137,611
VACAR	168,243	175,209	181,273	183,714	189,743	196,068	201,954	207,364	213,014	218,750	225,186
SERC	502,915	517,136	530,580	544,081	564,095	579,042	596,758	610,898	625,633	639,586	654,288
SOUTHEAST	107,049	105,989	106,846	108,803	111,262	114,115	116,850	119,218	122,514	125,297	127,776
WEST CENTRAL	72,014	75,090	78,014	80,447	83,271	86,103	89,114	92,400	95,732	98,873	101,716
NORTHERN	46,579	47,116	48,027	49,408	50,709	52,004	53,176	54,459	55,827	57,094	58,884
SPP	225,642	228,195	232,887	238,658	245,242	252,222	259,140	266,077	274,073	281,264	288,376
NWPP - U.S.	183,986	185,795	190,193	194,817	198,467	201,283	204,740	208,272	212,443	215,736	219,345
RMPA	33,088	35,996	38,225	39,765	41,301	42,747	44,016	45,109	46,350	47,679	49,355
AZ - NM	46,695	46,782	48,953	52,838	55,493	57,616	59,715	61,735	64,201	66,373	68,134
CA - SNV	205,168	208,035	213,182	216,843	220,893	225,281	231,133	235,938	240,919	246,119	251,316
WSCC - U.S.	468,937	476,608	490,553	504,263	516,154	526,927	539,604	551,054	563,913	575,907	588,150

PEAK DEMANDS

Peak Demands data represent actual and forecast peak hour demands. Demands which are interruptible by contract have not been subtracted.

The projected data for 1985-1994 are from the April 1, 1985 IE-411 Reports, Item 1, Lines 07 (SUMMER) and 08 (WINTER). Actual summer and winter peak demands for 1984 are reported directly to the Electric Council.

Peak demands as tabulated for the various Regions may occur in different months within a given season. U.S. and Canada totals, therefore, represent aggregations of non-coincident Regional peak demands.

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
REGIONAL PROJECTED PEAK DEMANDS - MW - SUMMER

REGION	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	65,851	68,222	69,591	70,851	72,577	74,199	75,507	76,910	78,303	79,704	81,174
ERCOT	36,851	38,464	39,663	40,809	42,372	43,917	45,446	46,969	48,660	50,612	52,408
MAAC	35,442	35,610	36,040	36,350	36,790	37,150	37,540	37,910	38,340	38,800	39,300
MAIN	35,186	35,155	35,662	36,207	36,801	37,380	37,975	38,609	39,235	39,852	40,498
MAPP - U.S.	20,666	21,813	22,395	22,878	23,407	23,964	24,530	24,948	25,460	25,983	26,538
NPCC - U.S.	38,144	39,630	40,320	40,680	41,330	41,920	42,530	43,324	44,128	44,686	45,517
SERC	93,400	97,317	100,086	101,913	105,344	108,045	110,831	113,416	116,125	119,028	121,894
SPP	45,562	47,502	48,561	49,686	51,007	52,415	53,797	55,296	56,613	57,960	59,368
WSCC - U.S.	80,048	81,399	83,151	85,834	87,657	89,558	91,658	93,556	95,734	97,865	100,125
NERC - U.S.	451,150	465,112	475,469	485,208	497,285	508,548	519,814	530,938	542,598	554,490	566,822
MAPP - CANADA	4,087	3,761	3,860	4,077	4,209	4,318	4,421	4,513	4,628	4,744	4,858
NPCC - CANADA	29,099	30,609	31,751	32,833	33,886	35,032	36,027	37,189	38,131	39,114	40,047
WSCC - CANADA	9,103	9,447	9,668	9,909	10,227	10,661	11,052	11,384	11,669	11,861	12,112
NERC - CANADA	42,289	43,817	45,279	46,819	48,322	50,011	51,500	53,086	54,428	55,719	57,017

SUBREGIONAL PROJECTED PEAK DEMANDS - MW - SUMMER

SUBREGION	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
CMNWLTH ED.	14,572	14,950	15,250	15,550	15,850	16,150	16,450	16,800	17,150	17,500	17,850
EAST MISSOURI	6,673	6,341	6,383	6,455	6,527	6,597	6,669	6,750	6,832	6,913	7,005
SO. CENT. ILL.	6,589	6,618	6,711	6,702	6,793	6,882	6,985	7,086	7,188	7,297	7,409
WIUM	7,352	7,246	7,318	7,500	7,631	7,751	7,871	7,973	8,065	8,142	8,234
MAIN	35,186	35,155	35,662	36,207	36,801	37,380	37,975	38,609	39,235	39,852	40,498
NEW YORK	21,870	22,530	22,920	23,180	23,430	23,620	23,830	24,110	24,450	24,760	25,100
NEW ENGLAND	16,274	17,100	17,400	17,500	17,900	18,300	18,700	19,214	19,678	19,926	20,417
NPCC - U.S.	38,144	39,630	40,320	40,680	41,330	41,920	42,530	43,324	44,128	44,686	45,517
NEW BRUNSWICK	1,282	1,333	1,368	1,413	1,460	1,500	1,532	1,570	1,608	1,645	1,683
ONTARIO	15,787	16,117	16,544	17,044	17,498	17,998	18,394	18,971	19,492	19,982	20,458
QUEBEC	12,030	13,159	13,839	14,376	14,928	15,534	16,101	16,648	17,031	17,487	17,906
NPCC - CANADA	29,099	30,609	31,751	32,833	33,886	35,032	36,027	37,189	38,131	39,114	40,047
FLORIDA	20,280	20,706	21,392	21,915	22,493	23,153	23,994	24,802	25,535	26,341	27,195
SOUTHERN	23,174	23,063	23,618	24,309	24,982	25,711	26,370	27,039	27,684	28,330	28,962
TVA	18,504	19,743	20,626	21,102	22,328	22,685	23,162	23,598	24,114	24,483	24,878
VACAR	31,442	33,805	34,450	34,587	35,541	36,496	37,305	37,977	38,792	39,874	40,859
SERC	93,400	97,317	100,086	101,913	105,344	108,045	110,831	113,416	116,125	119,028	121,894
SOUTHEAST	19,649	20,003	20,282	20,683	21,227	21,839	22,412	22,925	23,336	23,751	24,308
WEST CENTRAL	15,333	16,428	17,003	17,480	18,024	18,577	19,148	19,823	20,424	21,044	21,595
NORTHERN	10,580	11,071	11,276	11,523	11,756	11,999	12,237	12,548	12,853	13,165	13,465
SPP	45,562	47,502	48,561	49,686	51,007	52,415	53,797	55,296	56,613	57,960	59,368
NWPP - U.S.	25,384	25,039	25,387	26,052	26,407	26,871	27,340	27,836	28,273	28,817	29,245
RMPA	5,608	6,190	6,446	6,751	6,991	7,216	7,447	7,596	7,842	8,086	8,335
AZ - NM	9,384	10,092	10,447	11,320	11,677	12,124	12,559	13,003	13,449	13,909	14,368
CA - SNV	40,933	40,253	41,036	41,711	42,878	43,620	44,611	45,418	46,464	47,363	48,464
WSCC - U.S.*	80,048	81,399	83,151	85,834	87,657	89,558	91,658	93,556	95,734	97,865	100,125

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
REGIONAL PROJECTED PEAK DEMANDS - MW - WINTER

REGION	ACTUAL 1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95
ECAR	67,349	66,671	68,042	69,728	71,496	72,958	74,501	76,047	77,529	79,065	80,544
ERCOT	31,937	29,828	30,595	32,049	33,564	35,068	36,745	38,441	40,052	41,859	43,581
MAAC	33,384	31,830	32,380	33,090	33,880	34,560	35,240	35,880	36,530	37,170	37,780
MAIN	27,805	28,896	29,442	30,103	30,769	31,442	32,152	32,841	33,519	34,233	34,958
MAPP - U.S.	18,989	19,607	19,960	20,458	21,078	21,617	22,099	22,578	23,096	23,623	24,051
NPCC - U.S.	37,321	38,090	38,440	38,830	39,290	39,850	40,410	41,183	41,933	42,586	43,390
SERC	106,837	95,964	97,773	100,491	102,527	104,699	106,796	109,593	111,997	114,613	117,088
SPP	35,112	35,713	36,662	37,610	38,723	40,801	41,047	42,087	43,166	44,275	45,392
WSCC - U.S.	77,579	76,340	78,387	80,814	82,457	84,254	85,942	88,055	90,155	92,071	92,348
NERC - U.S.	436,313	422,939	431,681	443,173	453,784	465,249	474,932	486,705	497,977	509,495	519,132
MAPP - CANADA	5,081	5,165	5,429	5,608	5,768	5,915	6,055	6,205	6,363	6,513	6,678
NPCC - CANADA	42,773	43,760	45,429	47,058	48,553	50,154	51,709	53,179	54,519	55,839	57,077
WSCC - CANADA	11,583	11,845	12,274	12,572	12,980	13,487	13,954	14,440	14,805	15,118	15,486
NERC - CANADA	59,437	60,770	63,132	65,238	67,301	69,556	71,718	73,824	75,687	77,470	79,241

SUBREGIONAL PROJECTED PEAK DEMANDS - MW - WINTER

SUBREGION	ACTUAL 1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95
CMNWLTH ED.	11,034	11,630	11,860	12,100	12,340	12,590	12,840	13,100	13,360	13,630	13,900
EAST MISSOURI	4,903	4,970	5,142	5,344	5,536	5,718	5,920	6,122	6,314	6,526	6,728
SO. CENT. ILL.	5,448	5,553	5,601	5,635	5,736	5,845	5,973	6,104	6,236	6,373	6,513
WIUM	6,420	6,743	6,839	7,024	7,157	7,289	7,419	7,515	7,609	7,704	7,817
MAIN	27,805	28,896	29,442	30,103	30,769	31,442	32,152	32,841	33,519	34,233	34,959
NEW YORK	20,381	20,690	20,940	21,230	21,490	21,750	22,010	22,310	22,630	23,000	23,350
NEW ENGLAND	16,940	17,400	17,500	17,600	17,800	18,100	18,400	18,873	19,303	19,586	20,040
NPCC - U.S.	37,321	38,090	38,440	38,830	39,290	39,850	40,410	41,183	41,933	42,586	43,390
NEW BRUNSWICK	1,806	1,832	1,894	1,968	2,051	2,134	2,201	2,255	2,314	2,372	2,428
ONTARIO	19,257	19,783	20,395	20,959	21,576	22,050	22,743	23,366	23,955	24,525	25,065
QUEBEC	21,710	22,145	23,140	24,131	24,926	25,970	26,765	27,558	28,250	28,942	29,584
NPCC - CANADA	42,773	43,760	45,429	47,058	48,553	50,154	51,709	53,179	54,519	55,839	57,077
FLORIDA	26,298	23,470	24,013	24,473	24,985	25,457	26,077	26,839	27,509	28,307	28,955
SOUTHERN	22,124	18,901	19,244	19,682	20,160	20,644	20,981	21,694	22,154	22,648	23,166
TVA	22,740	20,264	20,610	21,703	21,936	22,300	22,721	23,226	23,581	23,970	24,331
VACAR	35,675	33,329	33,906	34,633	35,446	36,298	37,017	37,834	38,753	39,688	40,636
SERC	106,837	95,964	97,773	100,491	102,527	104,699	106,796	109,593	111,997	114,613	117,088
SOUTHEAST	15,407	15,126	15,515	15,796	16,231	17,615	17,090	17,291	17,626	17,982	18,333
WEST CENTRAL	11,773	12,360	12,707	13,110	13,553	14,018	14,496	15,082	15,582	16,099	16,634
NORTHERN	7,932	8,227	8,440	8,704	8,939	9,168	9,461	9,714	9,958	10,194	10,425
SPP	35,112	35,713	36,662	37,610	38,723	40,801	41,047	42,087	43,166	44,275	45,392
NWPP - U.S.	34,043	32,826	33,601	34,240	34,842	35,494	36,146	36,828	37,559	38,226	37,069
RMPA	5,794	6,089	6,310	6,594	6,794	6,970	7,173	7,405	7,654	7,880	7,844
AZ - NM	7,844	7,510	7,918	8,642	8,946	9,274	9,591	9,933	10,265	10,592	10,703
CA - SNV	31,321	30,403	31,072	31,571	32,451	32,996	33,793	34,450	35,204	35,973	36,732
WSCC - U.S.*	77,579	76,340	78,387	80,814	82,457	84,254	85,942	88,055	90,155	92,071	92,348

Footnote to Peak Demands

*Since the subregional peak demands may occur in different months than the coincident total WSCC (U.S.) peak demand, the sum of the individual peak demands may not always equal the WSCC (U.S.) total.

PLANNED RESOURCES

Planned Resources data include the total generating capacity which is existing, presently under construction, or in various stages of planning plus scheduled capacity purchases, less capacity sales.

The realization of these resource projections is contingent upon the scheduled completion of that generating capacity which is in various stages of construction, licensing, design, or planning.

The Peak Demands for the various Regions may occur in different months within a given season. The Planned Resources data correspond with the months of these projected Peak Demands.

These data are from the April 1, 1985 IE-411 Reports, Item 3-A, Line 04.

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
REGIONAL PLANNED RESOURCES - MW - SUMMER

REGION	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	89,855	95,330	95,380	96,991	97,943	98,921	101,128	101,543	103,267	104,108
ERCOT	45,022	47,440	51,179	52,455	54,000	55,575	57,323	58,922	61,270	63,117
MAAC	47,859	49,049	49,999	49,998	49,741	49,741	49,837	50,159	50,336	50,171
MAIN	45,408	45,478	48,653	49,455	49,464	49,483	49,503	49,386	49,992	49,974
MAPP - U.S.	29,131	29,372	29,448	30,162	30,145	30,205	30,281	30,325	30,203	30,604
NPCC - U.S.	53,012	55,192	56,995	57,125	57,131	57,154	59,135	58,728	59,647	59,509
SERC	130,304	133,104	136,663	139,495	144,055	144,211	148,323	149,703	152,422	153,378
SPP	65,541	67,703	67,559	67,280	66,692	66,742	69,022	68,975	70,749	71,894
WSCC - U.S.	113,011	119,540	122,176	124,818	126,111	126,780	128,784	130,986	131,882	134,017
NERC - U.S.	619,143	642,208	658,052	667,779	675,282	678,812	693,336	698,727	709,768	716,772
MAPP - CANADA	6,379	6,631	6,631	6,681	6,781	6,881	7,701	8,271	8,391	8,491
NPCC - CANADA	56,891	59,146	60,442	61,396	62,881	62,020	62,064	63,660	65,167	65,924
WSCC - CANADA	17,556	17,780	18,146	18,532	18,918	18,872	18,763	18,763	18,763	18,867
NERC - CANADA	80,826	83,557	85,219	86,609	88,580	87,773	88,528	90,694	92,321	93,282

SUBREGIONAL PLANNED RESOURCES - MW - SUMMER

SUBREGION	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
CMNWLTH ED.	18,899	18,759	21,194	21,972	21,972	21,972	21,972	21,972	21,972	21,972
EAST MISSOURI	7,988	7,999	8,004	8,005	8,005	8,041	8,046	8,047	8,342	8,343
SO. CENT. ILL.	8,754	8,626	9,576	9,576	9,576	9,576	9,576	9,576	9,872	9,834
WIUM	9,767	10,094	9,879	9,902	9,911	9,894	9,909	9,791	9,806	9,825
MAIN	45,408	45,478	48,653	49,455	49,464	49,483	49,503	49,386	49,992	49,974
NEW YORK	31,797	32,613	33,139	33,167	33,115	33,102	33,448	33,489	34,488	34,437
NEW ENGLAND	21,215	22,579	23,856	23,958	24,016	24,052	25,687	25,239	25,159	25,072
NPCC - U.S.	53,012	55,192	56,995	57,125	57,131	57,154	59,135	58,728	59,647	59,509
NEW BRUNSWICK	2,355	2,755	2,755	2,755	2,755	2,755	2,770	3,175	3,175	3,175
ONTARIO	27,727	28,635	29,823	30,709	31,590	31,630	31,650	32,551	33,452	33,604
QUEBEC	26,809	27,756	27,864	27,932	28,536	27,635	27,644	27,934	28,540	29,145
NPCC - CANADA	56,891	59,146	60,442	61,396	62,881	62,020	62,064	63,660	65,167	65,924
FLORIDA	29,048	29,025	30,075	30,355	31,081	31,189	31,386	31,442	31,366	31,032
SOUTHERN	30,053	30,068	31,407	31,362	33,932	33,785	35,080	35,904	37,145	37,745
TVA	29,248	30,342	30,342	31,712	32,924	32,924	34,136	34,136	34,136	34,136
VACAR	41,955	43,669	44,839	46,066	46,118	46,313	47,721	48,221	49,775	50,465
SERC	130,304	133,104	136,663	139,495	144,055	144,211	148,323	149,703	152,422	153,378
SOUTHEAST	28,940	30,016	29,681	29,459	28,672	28,203	29,569	29,185	29,972	30,296
WEST CENTRAL	21,042	21,978	22,211	22,317	22,450	22,988	23,169	23,443	24,305	24,537
NORTHERN	15,559	15,709	15,667	15,504	15,570	15,551	16,284	16,347	16,472	17,061
SPP	65,541	67,703	67,559	67,280	66,692	66,742	69,022	68,975	70,749	71,894
NWPP - U.S.	41,465	41,826	42,145	44,814	44,980	45,551	45,657	47,437	47,440	48,711
RMPA	8,749	8,857	8,958	9,028	9,053	9,096	9,673	10,033	10,030	10,338
AZ - NM	12,750	14,130	15,711	15,987	16,937	17,150	17,932	17,962	18,069	18,219
CA - SNV	51,575	55,371	55,997	56,357	57,001	57,552	58,439	59,280	60,179	61,007
WSCC - U.S.*	113,011	119,540	122,176	124,818	126,111	126,780	128,784	130,986	131,882	134,017

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
REGIONAL PLANNED RESOURCES - MW - WINTER

REGION	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95
ECAR	96,310	96,829	97,606	99,478	100,276	101,151	102,905	104,220	105,607	106,097
ERCOT	46,488	48,407	51,644	52,885	55,035	56,327	58,414	60,235	62,404	64,568
MAAC	50,880	51,262	52,331	52,330	52,025	52,320	51,911	52,189	52,616	52,442
MAIN	46,269	49,566	50,707	50,412	50,387	50,442	50,343	50,343	50,948	50,930
MAPP - U.S.	28,869	29,421	29,946	30,022	30,064	30,323	30,287	30,206	31,012	31,397
NPCC - U.S.	54,943	57,909	57,969	58,009	58,051	59,693	59,587	59,544	60,394	60,132
SERC	135,144	137,225	140,246	143,112	145,940	146,395	150,353	152,446	154,474	156,006
SPP	66,975	67,538	67,669	66,913	66,599	66,882	69,496	70,144	71,503	71,924
WSCC - U.S.	116,947	121,492	125,638	126,760	127,847	128,234	130,071	132,916	134,876	135,195
NERC - U.S.	642,825	659,649	673,756	679,921	686,224	691,767	703,367	712,243	723,834	728,691
MAPP - CANADA	6,511	6,595	6,645	6,745	6,845	7,185	8,057	8,355	8,455	8,727
NPCC - CANADA	59,982	61,885	61,958	62,968	64,978	65,022	66,302	67,809	68,566	69,184
WSCC - CANADA	17,310	17,514	17,880	18,266	18,596	18,484	18,484	18,484	18,844	18,844
NERC - CANADA	83,803	85,994	86,483	87,979	90,419	90,691	92,843	94,648	95,865	96,755

SUBREGIONAL PLANNED RESOURCES - MW - WINTER

SUBREGION	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95
CMNWLTH ED.	19,473	21,488	22,833	22,521	22,521	22,521	22,521	22,521	22,521	22,521
EAST MISSOURI	8,038	8,048	8,053	8,053	8,053	8,088	8,093	8,093	8,388	8,388
SO. CENT. ILL.	8,798	9,748	9,748	9,748	9,748	9,748	9,748	9,748	10,044	10,006
WIUM	9,960	10,282	10,073	10,090	10,065	10,085	9,981	9,981	9,995	10,015
MAIN	46,269	49,566	50,707	50,412	50,387	50,442	50,343	50,343	50,948	50,930
NEW YORK	32,842	33,393	33,359	33,343	33,351	33,337	33,683	33,724	34,675	34,664
NEW ENGLAND	22,101	24,516	24,610	24,666	24,700	26,356	25,904	25,820	25,719	25,468
NPCC - U.S.	54,943	57,909	57,969	58,009	58,051	59,693	59,587	59,544	60,394	60,132
NEW BRUNSWICK	2,755	2,755	2,755	2,755	2,755	2,770	3,175	3,175	3,175	3,175
ONTARIO	28,249	30,221	30,226	31,107	32,028	32,048	32,949	33,850	34,002	34,022
QUEBEC	28,978	28,909	28,977	29,106	30,195	30,204	30,178	30,784	31,389	31,987
NPCC - CANADA	59,982	61,885	61,958	62,968	64,978	65,022	66,302	67,809	68,566	69,184
FLORIDA	30,065	30,542	31,400	31,918	32,130	32,246	32,468	32,112	32,468	32,120
SOUTHERN	30,118	30,326	31,407	32,503	33,855	33,924	35,115	36,314	37,182	37,622
TVA	30,968	30,968	30,768	31,938	33,150	33,150	34,362	34,362	34,362	34,362
VACAR	43,993	45,389	46,671	46,753	46,805	47,075	48,408	49,658	50,462	51,902
SERC	135,144	137,225	140,246	143,112	145,940	146,395	150,353	152,446	154,474	156,006
SOUTHEAST	29,533	29,569	29,646	29,060	28,610	29,338	29,895	29,972	30,416	30,186
WEST CENTRAL	21,668	22,082	22,183	22,162	22,232	22,807	23,131	23,640	24,530	24,593
NORTHERN	15,774	15,887	15,840	15,691	15,757	15,737	16,470	16,532	16,557	17,145
SPP	66,975	67,538	67,669	66,913	66,599	66,882	69,496	70,144	71,503	71,924
NWPP - U.S.	43,358	44,472	46,638	46,779	46,831	46,831	46,704	47,975	49,246	49,434
RMPA	8,945	9,030	9,139	9,209	9,247	9,356	9,854	10,203	10,203	10,457
AZ - NM	12,860	14,196	15,623	15,912	16,699	17,076	17,856	17,993	17,993	18,079
CA - SNV	51,689	53,864	54,088	54,693	55,400	55,780	56,732	57,510	58,197	59,060
WSCC - U.S.*	116,947	121,492	125,638	126,760	127,847	128,234	130,071	132,916	134,876	135,195

Footnote to Planned Resources

*Since the subregional peak demands may occur in different months than the coincident total WSCC (U.S.) peak demand, the sum of the individual subregional resources based on those peak demands may not always equal the WSCC (U.S.) total.

INSTALLED GENERATING CAPACITY

Installed Generating Capacity data provide a breakdown by principal unit and fuel types of the total generating capacity which is existing, presently under construction, or in various stages of planning plus equipment upgradings, less deratings less equipment removals.

The realization of these projections is contingent upon the scheduled completion of that generating capacity which is in various stages of construction, licensing, design, or planning.

The Peak Demands as tabulated for the various NERC Regions may occur in different months within a given season. The Generating Capacity data correspond with the months of these projected Peak Demands, and are based on summer ratings.

These data are reported directly to the Electric Council.

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
INSTALLED GENERATING CAPABILITY - SUMMER - MW

NERC - U.S.	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
COAL	262,288	271,433	277,812	282,304	284,398	288,927	290,035	295,727	299,777	306,543	311,613
NUCLEAR	62,075	71,288	84,941	96,919	101,964	104,702	105,652	109,044	110,409	110,409	111,659
HYDRO	69,432[a]	64,444	64,824	65,063	67,065	67,489	67,827	68,172	68,453	68,500	68,539
PUMPED STORAGE	14,216	15,477	16,551	16,547	16,442	16,580	16,809	18,079	18,575	19,573	19,570
GEOTHERMAL	1,417	1,510	2,081	2,145	2,337	2,516	2,540	2,818	3,037	3,202	3,227
OIL - STEAM	38,258	36,928	36,393	35,797	35,641	35,005	35,159	35,139	34,838	35,434	35,085
OIL - CT	21,468	21,378	20,910	20,879	20,679	20,839	21,012	20,892	21,193	21,466	21,650
OIL - CC	851	850	850	850	850	850	850	850	850	1,156	1,156
GAS - STEAM	39,852	39,654	39,808	39,831	39,794	39,148	38,945	38,455	37,649	37,546	37,072
GAS - CT	2,483	2,393	2,385	2,518	2,535	2,650	2,868	2,983	3,127	3,533	3,534
GAS - CC	497	490	490	490	490	490	490	490	490	490	490
DUAL FUEL - STEAM	69,966	68,996	68,003	66,794	66,218	66,025	65,131	64,668	64,064	63,921	63,964
DUAL FUEL - CT	15,435	15,526	15,731	15,708	15,859	15,950	16,990	17,539	18,079	18,269	18,732
DUAL FUEL - CC	4,454	4,447	4,447	4,447	4,612	4,612	4,720	4,828	4,828	4,828	4,993
OTHER	1,548	1,973	3,497	4,425	5,208	6,405	6,955	7,327	8,391	9,426	10,351
TOTAL	604,240	616,787	638,723	654,717	664,092	672,188	675,983	687,011	693,760	704,296	711,635

NERC - CANADA	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
COAL	16,367	16,548	16,914	17,280	17,666	18,052	18,052	18,052	18,262	18,262	18,622
NUCLEAR	7,396	10,023	10,816	11,600	12,481	13,362	13,362	13,362	14,243	15,124	15,124
HYDRO	43,142	44,192	45,372	45,445	45,519	46,066	46,615	47,378	48,063	48,824	49,357
PUMPED STORAGE	0	0	0	0	0	0	0	0	0	0	0
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL - STEAM	3,960	3,960	4,227	4,227	4,227	4,227	4,227	4,227	4,227	4,227	4,227
OIL - CT	942	939	1,043	1,043	991	991	991	988	988	988	988
OIL - CC	0	0	0	0	0	0	0	0	0	0	0
GAS - STEAM	1,554	1,554	1,554	1,554	1,554	1,554	1,554	1,476	1,476	1,476	1,476
GAS - CT	460	459	459	459	509	609	663	735	735	735	818
GAS - CC	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL - STEAM	996	996	996	996	996	996	996	996	996	996	996
DUAL FUEL - CT[b]	0	0	0	0	0	0	0	0	0	0	0
DUAL FUEL - CC	0	0	0	0	0	0	0	0	0	0	0
OTHER	164	0	0	0	0	0	20	40	60	80	100
TOTAL	74,981	78,671	81,381	82,604	83,943	85,857	86,480	87,254	89,050	90,712	91,708

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
INSTALLED REGIONAL GENERATING CAPABILITY - SUMMER - MW

*** COAL ***	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	76,545	78,519	80,380	80,480	80,421	82,216	82,230	82,246	83,552	84,367	85,042
ERCOT	11,121	11,156	11,876	13,096	13,559	13,559	14,195	15,983	17,333	18,781	20,062
MAAC	12,695	12,710	12,710	12,710	12,710	12,710	12,710	12,710	13,350	13,975	13,975
MAIN	27,007	27,810	27,765	27,765	27,782	27,782	27,787	27,792	27,674	27,679	27,653
MAPP - U.S.	17,999	18,503	18,968	19,203	20,034	20,034	20,020	19,996	20,043	19,918	20,318
NPCC - U.S.	6,291	6,586	6,682	7,299	7,806	8,180	8,180	8,180	8,131	8,131	8,194
SERC	62,459	65,201	65,304	66,883	67,298	69,323	69,168	70,554	70,554	72,541	73,231
SPP	22,748	24,491	25,671	25,614	25,614	25,614	26,146	26,926	27,085	28,859	30,365
WSCC - U.S.	25,423	26,457	28,456	29,254	29,174	29,509	29,599	31,340	32,055	32,292	32,773
NERC - U.S.	262,288	271,433	277,812	282,304	284,399	288,927	290,035	295,727	299,777	306,543	311,613
MAPP - CANADA	1,969	1,944	1,944	1,944	1,944	1,944	1,944	1,944	2,154	2,154	2,154
NPCC - CANADA	10,238	10,444	10,444	10,444	10,444	10,444	10,444	10,444	10,444	10,444	10,444
WSCC - CANADA	4,160	4,160	4,526	4,892	5,278	5,664	5,664	5,664	5,664	5,664	6,024
NERC - CANADA	16,367	16,548	16,914	17,280	17,666	18,052	18,052	18,052	18,262	18,262	18,622

INSTALLED SUBREGIONAL GENERATING CAPABILITY - SUMMER - MW

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
CMNWLTH ED.	6,940	6,940	6,940	6,940	6,940	6,940	6,940	6,940	6,940	6,940	6,940
EAST MISSOURI	5,600	5,597	5,597	5,597	5,597	5,597	5,597	5,597	5,597	5,597	5,597
SO. CENT. ILL.	8,166	8,153	8,025	8,025	8,025	8,025	8,025	8,025	8,025	8,025	7,987
WIUM	6,301	7,120	7,203	7,203	7,220	7,220	7,225	7,230	7,112	7,117	7,129
MAIN	27,007	27,810	27,765	27,765	27,782	27,782	27,787	27,792	27,674	27,679	27,653
NEW YORK	4,028	3,989	3,989	4,606	4,739	4,739	4,739	4,739	4,739	4,739	4,802
NEW ENGLAND	2,263	2,597	2,693	2,693	3,067	3,441	3,441	3,441	3,392	3,392	3,392
NPCC - U.S.	6,291	6,586	6,682	7,299	7,806	8,180	8,180	8,180	8,131	8,131	8,194
NEW BRUNSWICK	285	285	285	285	285	285	285	285	285	285	285
ONTARIO	9,953	10,159	10,159	10,159	10,159	10,159	10,159	10,159	10,159	10,159	10,159
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	10,238	10,444	10,444	10,444	10,444	10,444	10,444	10,444	10,444	10,444	10,444
FLORIDA	4,722	6,546	6,649	7,199	7,614	8,164	8,164	8,164	8,164	8,564	8,564
SOUTHERN	21,738	22,320	22,320	23,128	23,128	24,603	24,448	25,114	25,114	25,151	25,151
TVA	16,101	16,101	16,101	16,101	16,101	16,101	16,101	16,101	16,101	16,101	16,101
VACAR	19,898	20,234	20,234	20,455	20,455	20,455	20,455	21,175	21,175	22,725	23,415
SERC	62,459	65,201	65,304	66,883	67,298	69,323	69,168	70,554	70,554	72,541	73,231
SOUTHEAST	5,021	5,792	6,112	6,055	6,055	6,055	6,055	6,055	6,055	6,855	7,395
WEST CENTRAL	7,721	8,794	9,634	9,634	9,634	9,634	10,166	10,166	10,166	11,098	11,407
NORTHERN	10,006	9,905	9,925	9,925	9,925	9,925	9,925	10,705	10,864	10,906	11,563
SPP	22,748	24,491	25,671	25,614	25,614	25,614	26,146	26,926	27,085	28,859	30,365
NWPP - U.S.	9,725	9,975	11,108	11,142	11,142	11,143	11,145	11,178	11,212	11,216	11,220
RMPA	5,292	5,637	5,636	5,636	5,636	5,641	5,657	6,252	6,602	6,602	6,852
AZ - NM	6,100	6,446	6,627	7,098	7,182	7,666	7,936	8,616	8,616	8,616	8,616
CA - SNV	4,302	4,399	5,215	5,378	5,214	5,059	4,861	5,294	5,625	5,858	6,085
WSCC - U.S.	25,423	26,457	28,456	29,254	29,174	29,509	29,599	31,340	32,055	32,292	32,773

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
INSTALLED REGIONAL GENERATING CAPABILITY - SUMMER - MW

*** NUCLEAR ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	4,593	4,599	6,871	6,871	7,691	7,017	7,737	7,737	7,737	7,737	7,737
ERCOT	0	0	1,150	3,350	3,550	4,600	4,800	4,800	4,800	4,800	4,800
MAAC	8,367	8,641	10,472	11,539	11,539	11,539	11,539	12,594	12,594	12,594	12,594
MAIN	7,318	10,606	10,606	13,766	14,856	14,856	14,886	14,886	14,886	14,886	14,886
MAPP - U.S.	3,708	3,710	3,710	3,710	3,710	3,710	3,710	3,710	3,710	3,710	3,710
NPCC - U.S.	7,940	7,907	9,866	12,096	12,096	12,096	12,096	12,096	12,096	12,096	12,096
SERC	23,714	23,925	26,312	28,363	30,678	33,040	33,040	34,252	34,377	34,377	34,377
SPP	1,694	4,973	5,913	5,913	5,913	5,913	5,913	7,038	7,038	7,038	7,038
WSCC - U.S.	4,741	6,927	10,041	11,311	11,931	11,931	11,931	11,931	13,171	13,171	14,421
NERC - U.S.	62,075	71,288	84,941	96,919	101,964	104,702	105,652	109,044	110,409	110,409	111,659
MAPP - CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	7,396	10,023	10,816	11,600	12,481	13,362	13,362	13,362	14,243	15,124	15,124
WSCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	7,396	10,023	10,816	11,600	12,481	13,362	13,362	13,362	14,243	15,124	15,124

INSTALLED SUBREGIONAL GENERATING CAPABILITY - SUMMER - MW

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
CMNWLTH ED.	5,826	7,994	7,994	10,204	11,294	11,294	11,294	11,294	11,294	11,294	11,294
EAST MISSOURI	0	1,120	1,120	1,120	1,120	1,120	1,150	1,150	1,150	1,150	1,150
SO. CENT. ILL.	0	0	0	950	950	950	950	950	950	950	950
WIUM	1,492	1,492	1,492	1,492	1,492	1,492	1,492	1,492	1,492	1,492	1,492
MAIN	7,318	10,606	10,606	13,766	14,856	14,856	14,886	14,886	14,886	14,886	14,886
NEW YORK	3,692	3,692	4,501	5,581	5,581	5,581	5,581	5,581	5,581	5,581	5,581
NEW ENGLAND	4,248	4,215	5,365	6,515	6,515	6,515	6,515	6,515	6,515	6,515	6,515
NPCC - U.S.	7,940	7,907	9,866	12,096	12,096	12,096	12,096	12,096	12,096	12,096	12,096
NEW BRUNSWICK	635	635	635	635	635	635	635	635	635	635	635
ONTARIO	6,074	8,701	9,494	10,278	11,159	12,040	12,040	12,040	12,921	13,802	13,802
QUEBEC	687	687	687	687	687	687	687	687	687	687	687
NPCC - CANADA	7,396	10,023	10,816	11,600	12,481	13,362	13,362	13,362	14,243	15,124	15,124
FLORIDA	3,673	3,704	3,704	3,704	3,704	3,704	3,704	3,704	3,704	3,704	3,704
SOUTHERN	3,135	3,279	3,279	4,430	4,430	5,580	5,580	5,580	5,705	5,705	5,705
TVA	5,491	5,491	6,661	6,661	7,831	9,043	10,255	10,255	10,255	10,255	10,255
VACAR	11,415	11,451	12,668	13,568	14,713	14,713	14,713	14,713	14,713	14,713	14,713
SERC	23,714	23,925	26,312	28,363	30,678	33,040	33,040	34,252	34,377	34,377	34,377
SOUTHEAST	1,694	3,923	4,863	4,863	4,863	4,863	4,863	5,988	5,988	5,988	5,988
WEST CENTRAL	0	0	0	0	0	0	0	0	0	0	0
NORTHERN	0	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050
SPP	1,694	4,973	5,913	5,913	5,913	5,913	5,913	7,038	7,038	7,038	7,038
NWPP - U.S.	1,080	2,180	2,180	2,180	2,180	2,180	2,180	2,180	3,420	3,420	4,670
RMPA	200	200	275	275	275	275	275	275	275	275	275
AZ - NM	0	0	1,577	2,503	2,780	2,780	2,780	2,780	2,780	2,780	2,780
CA - SNV	3,461	4,547	6,219	6,353	6,696	6,696	6,696	6,696	6,696	6,696	6,696
WSCC - U.S.	4,741	6,927	10,041	11,311	11,931	11,931	11,931	11,931	13,171	13,171	14,421

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
INSTALLED REGIONAL GENERATING CAPABILITY - SUMMER - MW

*** HYDRO[a] ***	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	609	609	609	609	609	609	609	609	609	609	609
ERCOT	236	236	239	239	239	239	239	239	239	239	239
MAAC	854	891	1,042	1,042	1,042	1,042	1,042	1,042	1,042	1,042	1,042
MAIN	571	575	575	576	582	582	582	583	584	584	584
MAPP - U.S.	3,062[a]	2,975	2,940	2,781	2,818	2,824	2,824	2,713	2,715	2,715	2,715
NPCC - U.S.[b]	5,324	5,344	5,353	5,353	5,368	5,378	5,413	5,762	5,765	5,766	5,766
SERC	10,689	11,033	11,229	11,229	11,229	11,229	11,229	11,229	11,299	11,299	11,299
SPP	2,390	2,557	2,557	2,557	2,557	2,557	2,557	2,557	2,557	2,557	2,557
WSCC - U.S.	45,697[a]	40,224	40,280	40,677	42,621	43,029	43,332	43,438	43,643	43,689	43,728
NERC - U.S.	69,432	64,444	64,824	65,063	67,065	67,489	67,827	68,172	68,453	68,500	68,539
MAPP - CANADA	4,178	4,160	4,412	4,412	4,412	4,412	4,412	5,132	5,492	5,612	5,612
NPCC - CANADA	28,283	28,901	29,829	29,902	29,976	30,523	31,072	31,115	31,440	32,081	32,853
WSCC - CANADA	10,681	11,131	11,131	11,131	11,131	11,131	11,131	11,131	11,131	11,131	10,892
NERC - CANADA	43,142	44,192	45,372	45,445	45,519	46,066	46,615	47,378	48,063	48,824	49,357

INSTALLED SUBREGIONAL GENERATING CAPABILITY - SUMMER - MW

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
CMNWLTH ED.	0	0	0	0	0	0	0	0	0	0	0
EAST MISSOURI	331	331	331	331	331	331	331	331	331	331	331
SO. CENT. ILL.	2	2	2	2	2	2	2	2	2	2	2
WIUM	238	242	242	243	249	249	249	250	251	251	251
MAIN	571	575	575	576	582	582	582	583	584	584	584
NEW YORK[b]	4,008	4,012	4,021	4,018	4,033	4,043	4,078	4,427	4,430	4,431	4,431
NEW ENGLAND[b]	1,316	1,332	1,332	1,335	1,335	1,335	1,335	1,335	1,335	1,335	1,335
NPCC - U.S.	5,324	5,344	5,353	5,353	5,368	5,378	5,413	5,762	5,765	5,766	5,766
NEW BRUNSWICK	884	884	884	884	884	884	884	884	884	884	884
ONTARIO	6,148	6,160	6,171	6,175	6,180	6,180	6,180	6,180	6,180	6,180	6,312
QUEBEC	21,251	21,857	22,774	22,843	22,912	23,459	24,008	24,051	24,376	25,017	25,657
NPCC - CANADA	28,283	28,901	29,829	29,902	29,976	30,523	31,072	31,115	31,440	32,081	32,853
FLORIDA	36	42	43	43	43	43	43	43	43	43	43
SOUTHERN	3,487	3,745	3,853	3,853	3,853	3,853	3,853	3,853	3,923	3,923	3,923
TVA	4,657	4,657	4,657	4,657	4,657	4,657	4,657	4,657	4,657	4,657	4,657
VACAR	2,509	2,589	2,676	2,676	2,676	2,676	2,676	2,676	2,676	2,676	2,676
SERC	10,689	11,033	11,229	11,229	11,229	11,229	11,229	11,229	11,299	11,299	11,299
SOUTHEAST	69	69	69	69	69	69	69	69	69	69	69
WEST CENTRAL	2,305	2,472	2,472	2,472	2,472	2,472	2,472	2,472	2,472	2,472	2,472
NORTHERN	16	16	16	16	16	16	16	16	16	16	16
SPP	2,390	2,557	2,557	2,557	2,557	2,557	2,557	2,557	2,557	2,557	2,557
NWPP - U.S.	33,445[a]	28,908	28,489	28,568	30,072	30,112	30,673	30,673	30,681	30,681	30,700
RMPA	2,110	2,200	2,240	2,313	2,367	2,386	2,402	2,402	2,402	2,388	2,388
AZ - NM	669	662	662	913	1,008	1,043	1,060	1,060	1,090	1,090	1,090
CA - SNV	9,478[a]	8,873	8,749	8,883	9,096	9,348	9,607	9,778	9,953	9,994	10,024
WSCC - U.S.	45,697	40,224	40,280	40,677	42,621	43,029	43,332	43,438	43,643	43,689	43,728

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
INSTALLED REGIONAL GENERATING CAPABILITY - SUMMER - MW

*** PUMPED STORAGE ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	2,768	3,188	3,608	3,608	3,608	3,608	3,608	3,608	3,608	3,608	3,608
ERCOT	0	0	0	0	0	0	0	0	0	0	0
MAAC	1,280	1,280	1,280	1,280	1,280	1,280	1,280	1,280	1,280	1,280	1,280
MAIN	300	300	300	300	300	300	300	300	300	300	300
MAPP - U.S.	0	0	0	0	0	0	0	0	0	0	0
NPCC - U.S.	2,613	2,613	2,613	2,613	2,613	2,613	2,613	2,613	2,613	3,613	3,613
SERC	3,152	3,782	4,412	4,412	4,412	4,412	4,637	6,059	6,559	6,559	6,559
SPP	260	260	260	260	260	260	260	260	260	260	260
WSCC - U.S.	3,843	4,054	4,078	4,074	3,969	4,107	4,111	3,959	3,955	3,953	3,950
NERC - U.S.	14,216	15,477	16,551	16,547	16,442	16,580	16,809	18,079	18,575	19,573	19,570
MAPP - CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	0	0	0	0	0	0	0	0	0	0	0

INSTALLED SUBREGIONAL GENERATING CAPABILITY - SUMMER - MW

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
CMNWLTH ED.	0	0	0	0	0	0	0	0	0	0	0
EAST MISSOURI	300	300	300	300	300	300	300	300	300	300	300
SO. CENT. ILL.	0	0	0	0	0	0	0	0	0	0	0
WIUM	0	0	0	0	0	0	0	0	0	0	0
MAIN	300	300	300	300	300	300	300	300	300	300	300
NEW YORK	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	2,000	2,000
NEW ENGLAND	1,613	1,613	1,613	1,613	1,613	1,613	1,613	1,613	1,613	1,613	1,613
NPCC - U.S.	2,613	2,613	2,613	2,613	2,613	2,613	2,613	2,613	2,613	3,613	3,613
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	498	498	498	498	498	498	648	1,495	1,495	1,495	1,495
TVA	1,532	1,532	1,532	1,532	1,532	1,532	1,532	1,532	1,532	1,532	1,532
VACAR	1,122	1,752	2,382	2,382	2,382	2,382	2,457	3,032	3,532	3,532	3,532
SERC	3,152	3,782	4,412	4,412	4,412	4,412	4,637	6,059	6,559	6,559	6,559
SOUTHEAST	0	0	0	0	0	0	0	0	0	0	0
WEST CENTRAL	260	260	260	260	260	260	260	260	260	260	260
NORTHERN	0	0	0	0	0	0	0	0	0	0	0
SPP	260	260	260	260	260	260	260	260	260	260	260
NWPP - U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	262	362	362	362	362	362	362	362	362	362	362
AZ - NM	137	137	137	137	137	137	137	137	137	137	137
CA - SNV	3,344	3,555	3,469	3,575	3,470	3,461	3,461	3,460	3,456	3,454	3,451
WSCC - U.S.	3,843	4,054	4,078	4,074	3,969	4,107	4,111	3,959	3,955	3,953	3,950

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
INSTALLED REGIONAL GENERATING CAPABILITY - SUMMER - MW

*** GEOTHERMAL ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	0	0	0	0	0	0	0	0	0	0	0
MAAC	0	0	0	0	0	0	0	0	0	0	0
MAIN	0	0	0	0	0	0	0	0	0	0	0
MAPP - U.S.	0	0	0	0	0	0	0	0	0	0	0
NPCC - U.S.	0	0	0	0	0	0	0	0	0	0	0
SERC	0	0	0	0	0	0	0	0	0	0	0
SPP	0	0	0	0	0	0	0	0	0	0	0
WSCC - U.S.	1,417	1,510	2,081	2,145	2,337	2,516	2,540	2,818	3,037	3,202	3,227
NERC - U.S.	1,417	1,510	2,081	2,145	2,337	2,516	2,540	2,818	3,037	3,202	3,227
MAPP - CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	0	0	0	0	0	0	0	0	0	0	0

INSTALLED SUBREGIONAL GENERATING CAPABILITY - SUMMER - MW

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
CMNWLTH ED.	0	0	0	0	0	0	0	0	0	0	0
EAST MISSOURI	0	0	0	0	0	0	0	0	0	0	0
SO. CENT. ILL.	0	0	0	0	0	0	0	0	0	0	0
WIUM	0	0	0	0	0	0	0	0	0	0	0
MAIN	0	0	0	0	0	0	0	0	0	0	0
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	0	0	0	0	0	0	0	0	0	0	0
NPCC - U.S.	0	0	0	0	0	0	0	0	0	0	0
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	0	0	0	0	0	0	0	0	0	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	0	0	0	0	0
SERC	0	0	0	0	0	0	0	0	0	0	0
SOUTHEAST	0	0	0	0	0	0	0	0	0	0	0
WEST CENTRAL	0	0	0	0	0	0	0	0	0	0	0
NORTHERN	0	0	0	0	0	0	0	0	0	0	0
SPP	0	0	0	0	0	0	0	0	0	0	0
NWPP - U.S.	20	20	20	34	34	48	48	62	62	62	62
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ - NM	0	0	0	0	5	5	5	5	5	5	5
CA - SNV	1,397	1,490	2,069	2,111	2,298	2,463	2,487	2,751	2,970	3,135	3,160
WSCC - U.S.	1,417	1,510	2,081	2,145	2,337	2,516	2,540	2,818	3,037	3,202	3,227

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
INSTALLED REGIONAL GENERATING CAPABILITY - SUMMER - MW

*** OIL - STEAM ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	2,270	2,792	2,792	2,792	3,241	3,241	3,395	3,601	3,601	3,601	3,601
ERCOT	0	0	0	0	0	0	0	0	0	0	0
MAAC	7,052	6,886	6,550	6,550	6,550	6,288	6,288	6,087	5,961	5,961	5,795
MAIN	3,381	3,356	3,356	3,356	3,356	3,356	3,356	3,356	3,356	3,356	3,356
MAPP - U.S.	81	75	75	75	75	75	75	75	75	75	75
NPCC - U.S.	16,205	15,718	15,622	15,228	14,637	14,263	14,263	14,263	14,128	14,026	13,893
SERC	8,787	7,619	7,516	7,314	7,300	7,300	7,300	7,275	7,235	7,933	7,933
SPP	50	50	50	50	50	50	50	50	50	50	0
WSCC - U.S.	432	432	432	432	432	432	432	432	432	432	432
NERC - U.S.	38,258	36,928	36,393	35,797	35,641	35,005	35,159	35,139	34,838	35,434	35,085
MAPP - CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	3,960	3,960	4,227	4,227	4,227	4,227	4,227	4,227	4,227	4,227	4,227
WSCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	3,960	3,960	4,227	4,227	4,227	4,227	4,227	4,227	4,227	4,227	4,227

INSTALLED SUBREGIONAL GENERATING CAPABILITY - SUMMER - MW

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
CMNWLTH ED.	2,698	2,698	2,698	2,698	2,698	2,698	2,698	2,698	2,698	2,698	2,698
EAST MISSOURI	265	196	196	196	196	196	196	196	196	196	196
SO. CENT. ILL.	412	456	456	456	456	456	456	456	456	456	456
WIUM	6	6	6	6	6	6	6	6	6	6	6
MAIN	3,381	3,356	3,356	3,356	3,356	3,356	3,356	3,356	3,356	3,356	3,356
NEW YORK	7,814	7,814	7,814	7,448	7,328	7,328	7,328	7,328	7,328	7,328	7,280
NEW ENGLAND	8,391	7,904	7,808	7,780	7,309	6,935	6,935	6,935	6,800	6,698	6,613
NPCC - U.S.	16,205	15,718	15,622	15,228	14,637	14,263	14,263	14,263	14,128	14,026	13,893
NEW BRUNSWICK	1,098	1,098	1,365	1,365	1,365	1,365	1,365	1,365	1,365	1,365	1,365
ONTARIO	2,232	2,232	2,232	2,232	2,232	2,232	2,232	2,232	2,232	2,232	2,232
QUEBEC	630	630	630	630	630	630	630	630	630	630	630
NPCC - CANADA	3,960	3,960	4,227	4,227	4,227	4,227	4,227	4,227	4,227	4,227	4,227
FLORIDA	7,000	6,168	6,065	6,065	6,051	6,051	6,051	6,051	6,051	6,775	6,775
SOUTHERN	228	228	228	228	228	228	228	203	163	137	137
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	1,559	1,223	1,223	1,021	1,021	1,021	1,021	1,021	1,021	1,021	1,021
SERC	8,787	7,619	7,516	7,314	7,300	7,300	7,300	7,275	7,235	7,933	7,933
SOUTHEAST	0	0	0	0	0	0	0	0	0	0	0
WEST CENTRAL	50	50	50	50	50	50	50	50	50	50	0
NORTHERN	0	0	0	0	0	0	0	0	0	0	0
SPP	50	50	50	50	50	50	50	50	50	50	0
NWPP - U.S.	112	112	112	112	112	112	112	112	112	112	112
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ - NM	0	0	0	0	0	0	0	0	0	0	0
CA - SNV	320	320	320	320	320	320	320	320	320	320	320
WSCC - U.S.	432	432	432	432	432	432	432	432	432	432	432

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
INSTALLED REGIONAL GENERATING CAPABILITY - SUMMER - MW

*** OIL - COMBUSTION TURBINE[c] ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	1,960	1,951	1,951	1,951	1,951	1,948	1,948	1,852	1,972	2,115	2,285
ERCOT	56	50	50	50	50	50	50	50	50	50	50
MAAC	4,937	4,940	4,479	4,479	4,476	4,479	4,478	4,478	4,484	4,484	4,484
MAIN	1,164	1,167	1,167	1,167	1,167	1,167	1,167	1,167	1,167	1,167	1,167
MAPP - U.S.	2,238	2,286	2,295	2,298	2,244	2,228	2,273	2,273	2,273	2,273	2,284
NPCC - U.S.	2,766	2,742	2,742	2,688	2,684	2,684	2,684	2,684	2,684	2,684	2,667
SERC	5,949	5,916	5,900	5,900	5,855	6,031	6,161	6,089	6,114	6,144	6,144
SPP	1,450	1,377	1,377	1,397	1,303	1,303	1,302	1,350	1,500	1,600	1,620
WSCC - U.S.	948	949	949	949	949	949	949	949	949	949	949
NERC - U.S.	21,468	21,378	20,910	20,879	20,679	20,839	21,012	20,892	21,193	21,466	21,650
MAPP - CANADA	22	22	22	22	22	22	22	22	22	22	22
NPCC - CANADA	823	820	924	924	872	872	872	872	872	872	872
WSCC - CANADA	97	97	97	97	97	97	97	94	94	94	94
NERC - CANADA	942	939	1,043	1,043	991	991	991	988	988	988	988

INSTALLED SUBREGIONAL GENERATING CAPABILITY - SUMMER - MW

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
CMNWLTH ED.	438	438	438	438	438	438	438	438	438	438	438
EAST MISSOURI	349	349	349	349	349	349	349	349	349	349	349
SO. CENT. ILL.	75	78	78	78	78	78	78	78	78	78	78
WIUM	302	302	302	302	302	302	302	302	302	302	302
MAIN	1,164	1,167	1,167	1,167	1,167	1,167	1,167	1,167	1,167	1,167	1,167
NEW YORK	1,764	1,764	1,764	1,764	1,764	1,764	1,764	1,764	1,764	1,764	1,764
NEW ENGLAND	1,002	978	978	924	920	920	920	920	920	920	903
NPCC - U.S.	2,766	2,742	2,742	2,688	2,684	2,684	2,684	2,684	2,684	2,684	2,667
NEW BRUNSWICK	26	26	26	26	26	26	26	26	26	26	26
ONTARIO	362	359	463	463	411	411	411	411	411	411	411
QUEBEC	435	435	435	435	435	435	435	435	435	435	435
NPCC - CANADA	823	820	924	924	872	872	872	872	872	872	872
FLORIDA	2,008	2,009	2,008	2,008	2,008	2,184	2,314	2,305	2,361	2,361	2,361
SOUTHERN	1,214	1,181	1,165	1,165	1,120	1,120	1,120	1,057	1,026	1,056	1,056
TVA	1,464	1,464	1,464	1,464	1,464	1,464	1,464	1,464	1,464	1,464	1,464
VACAR	1,263	1,263	1,263	1,263	1,263	1,263	1,263	1,263	1,263	1,263	1,263
SERC	5,949	5,916	5,900	5,900	5,855	6,031	6,161	6,089	6,114	6,144	6,144
SOUTHEAST	224	224	224	224	224	224	223	273	423	523	673
WEST CENTRAL	67	67	67	67	63	63	63	61	61	61	21
NORTHERN	1,159	1,086	1,086	1,106	1,016	1,016	1,016	1,016	1,016	1,016	926
SPP	1,450	1,377	1,377	1,397	1,303	1,303	1,302	1,350	1,500	1,600	1,620
NWPP - U.S.	263	255	255	255	255	255	255	255	255	255	255
RMPA	49	49	49	49	49	49	49	49	49	49	49
AZ - NM	37	37	37	37	37	37	37	37	37	37	37
CA - SNV	599	608	608	608	608	608	608	608	608	608	608
WSCC - U.S.	948	949	949	949	949	949	949	949	949	949	949

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
INSTALLED REGIONAL GENERATING CAPABILITY - SUMMER - MW

*** OIL - COMBINED CYCLE ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	226	226	226	226	226	226	226	226	226	532	532
ERCOT	0	0	0	0	0	0	0	0	0	0	0
MAAC	114	114	114	114	114	114	114	114	114	114	114
MAIN	38	38	38	38	38	38	38	38	38	38	38
MAPP - U.S.	110	109	109	109	109	109	109	109	109	109	109
NPCC - U.S.	363	363	363	363	363	363	363	363	363	363	363
SERC	0	0	0	0	0	0	0	0	0	0	0
SPP	0	0	0	0	0	0	0	0	0	0	0
WSCC - U.S.	0	0	0	0	0	0	0	0	0	0	0
NERC - U.S.	851	850	850	850	850	850	850	850	850	1,156	1,156
MAPP - CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	0	0	0	0	0	0	0	0	0	0	0

INSTALLED SUBREGIONAL GENERATING CAPABILITY - SUMMER - MW

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
CMNWLTH ED.	0	0	0	0	0	0	0	0	0	0	0
EAST MISSOURI	0	0	0	0	0	0	0	0	0	0	0
SO. CENT. ILL.	0	0	0	0	0	0	0	0	0	0	0
WIUM	38	38	38	38	38	38	38	38	38	38	38
MAIN	38	38	38	38	38	38	38	38	38	38	38
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	363	363	363	363	363	363	363	363	363	363	363
NPCC - U.S.	363	363	363	363	363	363	363	363	363	363	363
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	0	0	0	0	0	0	0	0	0	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	0	0	0	0	0
SERC	0	0	0	0	0	0	0	0	0	0	0
SOUTHEAST	0	0	0	0	0	0	0	0	0	0	0
WEST CENTRAL	0	0	0	0	0	0	0	0	0	0	0
NORTHERN	0	0	0	0	0	0	0	0	0	0	0
SPP	0	0	0	0	0	0	0	0	0	0	0
NWPP - U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ - NM	0	0	0	0	0	0	0	0	0	0	0
CA - SNV	0	0	0	0	0	0	0	0	0	0	0
WSCC - U.S.	0	0	0	0	0	0	0	0	0	0	0

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
INSTALLED REGIONAL GENERATING CAPABILITY - SUMMER - MW

*** GAS - STEAM **

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	29	146	146	146	29	29	29	29	29	29	29
ERCOT	25,477	25,460	25,503	25,503	25,583	25,337	25,222	24,755	23,983	23,880	23,590
MAAC	0	0	0	0	0	0	0	0	0	0	0
MAIN	26	26	26	26	26	26	26	26	26	26	26
MAPP - U.S.	6	6	0	0	0	0	0	0	0	0	0
NPCC - U.S.	400	400	400	400	400	0	0	0	0	0	0
SERC	0	0	0	0	0	0	0	0	0	0	0
SPP	13,630	13,228	13,345	13,309	13,309	13,309	13,221	13,198	13,164	13,164	12,980
WSCC - U.S.	284	388	388	447	447	447	447	447	447	447	447
NERC - U.S.	39,852	39,654	39,808	39,831	39,794	39,148	38,945	38,455	37,649	37,546	37,072
MAPP - CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	588	588	588	588	588	588	588	588	588	588	588
WSCC - CANADA	966	966	966	966	966	966	966	888	888	888	888
NERC - CANADA	1,554	1,554	1,554	1,554	1,554	1,554	1,554	1,476	1,476	1,476	1,476

INSTALLED SUBREGIONAL GENERATING CAPABILITY - SUMMER - MW

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
CMNWLTH ED.	0	0	0	0	0	0	0	0	0	0	0
EAST MISSOURI	0	0	0	0	0	0	0	0	0	0	0
SO. CENT. ILL.	0	0	0	0	0	0	0	0	0	0	0
WIUM	26	26	26	26	26	26	26	26	26	26	26
MAIN	26	26	26	26	26	26	26	26	26	26	26
NEW YORK	400	400	400	400	400	0	0	0	0	0	0
NEW ENGLAND	0	0	0	0	0	0	0	0	0	0	0
NPCC - U.S.	400	400	400	400	400	0	0	0	0	0	0
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	588	588	588	588	588	588	588	588	588	588	588
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	588	588	588	588	588	588	588	588	588	588	588
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	0	0	0	0	0	0	0	0	0	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	0	0	0	0	0
SERC	0	0	0	0	0	0	0	0	0	0	0
SOUTHEAST	4,901	4,707	4,707	4,707	4,707	4,707	4,619	4,596	4,562	4,562	4,452
WEST CENTRAL	7,540	7,332	7,449	7,413	7,413	7,413	7,413	7,413	7,413	7,413	7,339
NORTHERN	1,189	1,189	1,189	1,189	1,189	1,189	1,189	1,189	1,189	1,189	1,189
SPP	13,630	13,228	13,345	13,309	13,309	13,309	13,221	13,198	13,164	13,164	12,980
NWPP - U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ - NM	0	0	0	0	0	0	0	0	0	0	0
CA - SNV	284	388	388	447	447	447	447	447	447	447	447
WSCC - U.S.	284	388	388	447	447	447	447	447	447	447	447

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
INSTALLED REGIONAL GENERATING CAPABILITY - SUMMER - MW

*** GAS - COMBUSTION TURBINE[C] ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	1,115	1,115	1,115	1,115	1,115	1,115	1,185	1,185	1,255	1,255	1,241
ERCOT	281	281	246	381	381	481	581	681	681	906	906
MAAC	198	198	198	198	198	198	198	198	198	198	198
MAIN	67	67	67	67	67	67	67	67	67	67	67
MAPP - U.S.	0	0	0	0	0	0	0	0	0	0	0
NPCC - U.S.	49	50	50	50	50	50	50	50	50	50	50
SERC	30	30	30	30	30	30	30	30	30	30	30
SPP	629	611	611	611	611	611	643	643	702	868	868
WSCC - U.S.	114	41	68	66	83	98	114	129	144	159	174
NERC - U.S.	2,483	2,393	2,385	2,518	2,535	2,650	2,868	2,983	3,127	3,533	3,534
MAPP - CANADA	157	157	157	157	207	307	407	507	507	507	607
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC - CANADA	303	302	302	302	302	302	256	228	228	228	211
NERC - CANADA	460	459	459	459	509	609	663	735	735	735	818

INSTALLED SUBREGIONAL GENERATING CAPABILITY - SUMMER - MW

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
CMNWLTH ED.	0	0	0	0	0	0	0	0	0	0	0
EAST MISSOURI	37	37	37	37	37	37	37	37	37	37	37
SO. CENT. ILL.	30	30	30	30	30	30	30	30	30	30	30
WIUM	0	0	0	0	0	0	0	0	0	0	0
MAIN	67	67	67	67	67	67	67	67	67	67	67
NEW YORK	45	45	45	45	45	45	45	45	45	45	45
NEW ENGLAND	4	5	5	5	5	5	5	5	5	5	5
NPCC - U.S.	49	50	50	50	50	50	50	50	50	50	50
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	21	21	21	21	21	21	21	21	21	21	21
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	9	9	9	9	9	9	9	9	9	9	9
SERC	30	30	30	30	30	30	30	30	30	30	30
SOUTHEAST	16	8	8	8	8	8	0	0	0	0	0
WEST CENTRAL	399	389	389	389	389	389	389	389	448	614	614
NORTHERN	214	214	214	214	214	214	254	254	254	254	254
SPP	629	611	611	611	611	611	643	643	702	868	868
NWPP - U.S.	15	15	15	15	15	15	15	15	15	15	15
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ - NM	0	0	0	0	0	0	0	0	0	0	0
CA - SNV	99	26	53	51	68	83	99	114	129	144	159
WSCC - U.S.	114	41	68	66	83	98	114	129	144	159	174

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
INSTALLED REGIONAL GENERATING CAPABILITY - SUMMER - MW

*** GAS - COMBINED CYCLE ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	28	28	28	28	28	28	28	28	28	28	28
MAAC	0	0	0	0	0	0	0	0	0	0	0
MAIN	0	0	0	0	0	0	0	0	0	0	0
MAPP - U.S.	0	0	0	0	0	0	0	0	0	0	0
NPCC - U.S.	0	0	0	0	0	0	0	0	0	0	0
SERC	0	0	0	0	0	0	0	0	0	0	0
SPP	459	452	452	452	452	452	452	452	452	452	452
WSCC - U.S.	10	10	10	10	10	10	10	10	10	10	10
NERC - U.S.	497	490	490	490	490	490	490	490	490	490	490
MAPP - CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	0	0	0	0	0	0	0	0	0	0	0

INSTALLED SUBREGIONAL GENERATING CAPABILITY - SUMMER - MW

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
CMNWLTH ED.	0	0	0	0	0	0	0	0	0	0	0
EAST MISSOURI	0	0	0	0	0	0	0	0	0	0	0
SO. CENT. ILL.	0	0	0	0	0	0	0	0	0	0	0
WIUM	0	0	0	0	0	0	0	0	0	0	0
MAIN	0	0	0	0	0	0	0	0	0	0	0
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	0	0	0	0	0	0	0	0	0	0	0
NPCC - U.S.	0	0	0	0	0	0	0	0	0	0	0
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	0	0	0	0	0	0	0	0	0	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	0	0	0	0	0
SERC	0	0	0	0	0	0	0	0	0	0	0
SOUTHEAST	0	0	0	0	0	0	0	0	0	0	0
WEST CENTRAL	459	452	452	452	452	452	452	452	452	452	452
NORTHERN	0	0	0	0	0	0	0	0	0	0	0
SPP	459	452	452	452	452	452	452	452	452	452	452
NWPP - U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ - NM	10	10	10	10	10	10	10	10	10	10	10
CA - SNV	0	0	0	0	0	0	0	0	0	0	0
WSCC - U.S.	10	10	10	10	10	10	10	10	10	10	10

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
INSTALLED REGIONAL GENERATING CAPABILITY - SUMMER - MW

*** DUAL FUELED[d] (OIL/GAS) - STEAM ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	5,412	5,412	5,412	5,412	5,412	5,412	5,412	5,412	5,412	5,412	5,412
MAAC[e]	7,921	7,921	7,921	7,921	7,921	7,921	7,921	7,921	7,921	7,921	7,921
MAIN	480	482	482	482	482	482	440	440	440	440	440
MAPP - U.S.	330	330	327	332	276	276	276	276	271	271	271
NPCC - U.S.	7,226	7,226	7,226	6,827	6,798	7,138	7,092	7,092	7,092	7,092	7,029
SERC	8,373	8,107	8,103	8,103	8,082	8,027	7,863	7,773	7,773	7,773	8,039
SPP	15,840	15,539	15,249	14,870	14,870	14,500	14,133	14,008	13,978	13,807	13,459
WSCC - U.S.	24,384	23,979	23,283	22,847	22,377	22,269	21,994	21,746	21,177	21,205	21,393
NERC - U.S.	69,966	68,998	68,003	66,794	66,218	66,025	65,131	64,668	64,064	63,921	63,964
MAPP - CANADA	96	96	96	96	96	96	96	96	96	96	96
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC - CANADA	900	900	900	900	900	900	900	900	900	900	900
NERC - CANADA	996	996	996	996	996	996	996	996	996	996	996

INSTALLED SUBREGIONAL GENERATING CAPABILITY - SUMMER - MW

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
CMNWLTH ED.	0	0	0	0	0	0	0	0	0	0	0
EAST MISSOURI	266	265	265	265	265	265	265	265	265	265	265
SO. CENT. ILL.	144	147	147	147	147	147	147	147	147	147	147
WIUM	70	70	70	70	70	70	28	28	28	28	28
MAIN	480	482	482	482	482	482	440	440	440	440	440
NEW YORK	6,318	6,318	6,318	5,919	5,890	6,230	6,184	6,184	6,184	6,184	6,121
NEW ENGLAND	908	908	908	908	908	908	908	908	908	908	908
NPCC - U.S.	7,226	7,226	7,226	6,827	6,798	7,138	7,092	7,092	7,092	7,092	7,029
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	6,390	6,124	6,120	6,120	6,099	6,099	6,077	6,117	6,117	6,117	6,383
SOUTHERN	1,071	1,071	1,071	1,071	1,071	1,016	874	744	744	744	744
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	912	912	912	912	912	912	912	912	912	912	912
SERC	8,373	8,107	8,103	8,103	8,082	8,027	7,863	7,773	7,773	7,773	8,039
SOUTHEAST	12,874	12,620	12,330	11,967	11,967	11,597	11,265	11,140	11,140	11,027	10,781
WEST CENTRAL	1,874	1,824	1,824	1,824	1,824	1,824	1,824	1,824	1,824	1,776	1,674
NORTHERN	1,092	1,095	1,095	1,079	1,079	1,079	1,044	1,044	1,014	1,004	1,004
SPP	15,840	15,539	15,249	14,870	14,870	14,500	14,133	14,008	13,978	13,807	13,459
NWPP - U.S.	532	532	532	532	532	532	532	532	532	532	532
RMPA	354	354	316	316	316	316	308	291	291	291	348
AZ - NM	2,771	2,879	2,673	2,673	2,502	2,502	2,428	2,428	2,428	2,536	2,536
CA - SNV	20,727	20,214	19,762	19,326	19,027	18,919	18,726	18,495	17,926	17,846	17,977
WSCC - U.S.	24,384	23,979	23,283	22,847	22,377	22,269	21,994	21,746	21,177	21,205	21,393

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
INSTALLED REGIONAL GENERATING CAPABILITY - SUMMER - MW

*** DUAL FUELED[d] (OIL/GAS) - COMBUSTION TURBINE[c] ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	722	722	757	722	912	912	1,682	1,782	2,112	2,302	2,542
MAAC[f]	2,282	2,282	2,282	2,282	2,282	2,282	2,282	2,282	2,282	2,282	2,282
MAIN	1,253	1,244	1,244	1,244	1,244	1,244	1,244	1,244	1,244	1,244	1,244
MAPP - U.S.	553	560	559	562	479	479	509	509	509	509	509
NPCC - U.S.	1,992	1,992	1,992	1,992	1,992	1,992	1,992	2,056	2,056	2,056	2,056
SERC	3,760	3,760	3,760	3,760	3,760	3,760	3,760	3,926	3,926	3,926	3,926
SPP	656	729	729	729	773	873	1,113	1,323	1,533	1,533	1,673
WSCC - U.S.	4,217	4,237	4,408	4,417	4,417	4,408	4,408	4,417	4,417	4,417	4,500
NERC - U.S.	15,435	15,526	15,731	15,708	15,859	15,950	16,990	17,539	18,079	18,269	18,732
MAPP - CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	0	0	0	0	0	0	0	0	0	0	0

INSTALLED SUBREGIONAL GENERATING CAPABILITY - SUMMER - MW

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
CMNWLTH ED.	602	602	602	602	602	602	602	602	602	602	602
EAST MISSOURI	12	12	12	12	12	12	12	12	12	12	12
SO. CENT. ILL.	168	151	151	151	151	151	151	151	151	151	151
WIUM	471	479	479	479	479	479	479	479	479	479	479
MAIN	1,253	1,244	1,244	1,244	1,244	1,244	1,244	1,244	1,244	1,244	1,244
NEW YORK	1,734	1,734	1,734	1,734	1,734	1,734	1,734	1,734	1,734	1,734	1,734
NEW ENGLAND	258	258	258	258	258	258	258	322	322	322	322
NPCC - U.S.	1,992	1,992	1,992	1,992	1,992	1,992	1,992	2,056	2,056	2,056	2,056
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	1,876	1,876	1,876	1,876	1,876	1,876	1,876	2,042	2,042	2,042	2,042
SOUTHERN	62	62	62	62	62	62	62	62	62	62	62
TVA	602	602	602	602	602	602	602	602	602	602	602
VACAR	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220
SERC	3,760	3,760	3,760	3,760	3,760	3,760	3,760	3,926	3,926	3,926	3,926
SOUTHEAST	184	184	184	184	184	184	184	184	184	184	184
WEST CENTRAL	0	0	0	0	0	100	340	550	760	760	900
NORTHERN	472	545	545	545	589	589	589	589	589	589	589
SPP	656	729	729	729	773	873	1,113	1,323	1,533	1,533	1,673
NWPP - U.S.	834	762	760	760	760	760	762	762	762	762	762
RMPA	534	534	534	534	534	534	534	534	534	534	534
AZ - NM	1,446	1,424	1,424	1,424	1,424	1,424	1,424	1,424	1,424	1,424	1,524
CA - SNV	1,391	1,519	1,699	1,699	1,699	1,699	1,699	1,699	1,699	1,699	1,682
WSCC - U.S.	4,217	4,237	4,408	4,417	4,417	4,408	4,408	4,417	4,417	4,417	4,500

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
INSTALLED REGIONAL GENERATING CAPABILITY - SUMMER - MW

*** DUAL FUELED[d](OIL/GAS) - COMBINED CYCLE ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	498	498	498	498	498	498	498	498	498	498	498
MAAC	218	218	218	218	218	218	218	218	218	218	218
MAIN	0	0	0	0	0	0	0	0	0	0	0
MAPP - U.S.	60	60	60	60	60	60	60	60	60	60	60
NPCC - U.S.	93	93	93	93	93	93	93	93	93	93	93
SERC	588	588	588	588	588	588	696	804	804	804	804
SPP	534	534	534	534	699	699	699	699	699	699	864
WSCC - U.S.	2,463	2,456	2,456	2,456	2,456	2,456	2,456	2,456	2,456	2,456	2,456
NERC - U.S.	4,454	4,447	4,447	4,447	4,612	4,612	4,720	4,828	4,828	4,828	4,993
MAPP - CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	0	0	0	0	0	0	0	0	0	0	0

INSTALLED SUBREGIONAL GENERATING CAPABILITY - SUMMER - MW

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
CMNWLTH ED.	0	0	0	0	0	0	0	0	0	0	0
EAST MISSOURI	0	0	0	0	0	0	0	0	0	0	0
SO. CENT. ILL.	0	0	0	0	0	0	0	0	0	0	0
WIUM	0	0	0	0	0	0	0	0	0	0	0
MAIN	0	0	0	0	0	0	0	0	0	0	0
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	93	93	93	93	93	93	93	93	93	93	93
NPCC - U.S.	93	93	93	93	93	93	93	93	93	93	93
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	560	560	560	560	560	560	560	560	560	560	560
SOUTHERN	0	0	0	0	0	0	0	0	0	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	28	28	28	28	28	28	136	244	244	244	244
SERC	588	588	588	588	588	588	696	804	804	804	804
SOUTHEAST	203	203	203	203	203	203	203	203	203	203	203
WEST CENTRAL	255	255	255	255	255	255	255	255	255	255	255
NORTHERN	76	76	76	76	241	241	241	241	241	241	406
SPP	534	534	534	534	699	699	699	699	699	699	864
NWPP - U.S.	500	500	493	493	493	493	500	500	500	500	500
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ - NM	829	829	829	829	829	829	829	829	829	829	829
CA - SNV	1,134	1,134	1,134	1,134	1,134	1,134	1,134	1,134	1,134	1,134	1,134
WSCC - U.S.	2,463	2,456	2,456	2,456	2,456	2,456	2,456	2,456	2,456	2,456	2,456

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
INSTALLED REGIONAL GENERATING CAPABILITY - SUMMER - MW

*** OTHER ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT[g]	225	525	1,025	1,217	1,547	2,160	2,170	2,380	3,090	3,700	4,315
MAAC[h]	265	235	235	141	141	141	141	141	141	141	141
MAIN	3	13	33	43	43	53	73	83	83	93	101
MAPP - U.S.[i]	14	14	14	14	14	14	14	14	14	14	14
NPCC - U.S.[j]	50	50	50	57	89	89	89	89	129	129	129
SERC	61	90	156	287	369	421	433	438	438	443	443
SPP	49	53	53	228	228	228	228	218	204	204	254
WSCC - U.S.	881	993	1,931	2,438	2,777	3,299	3,807	3,964	4,292	4,702	4,954
NERC - U.S.	1,548	1,973	3,497	4,425	5,208	6,405	6,955	7,327	8,391	9,426	10,351
MAPP - CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	20	40	60	80	100
WSCC - CANADA	164	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	164	0	0	0	0	0	20	40	60	80	100

INSTALLED SUBREGIONAL GENERATING CAPABILITY - SUMMER - MW

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
CMNWLTH ED.	0	0	0	0	0	0	0	0	0	0	0
EAST MISSOURI	0	0	0	0	0	0	0	0	0	0	0
SO. CENT. ILL.	3	3	3	3	3	3	3	3	3	3	3
WIUM	0	10	30	40	40	50	70	80	80	90	98
MAIN	3	13	33	43	43	53	73	83	83	93	101
NEW YORK[j]	0	0	0	0	32	32	32	32	72	72	72
NEW ENGLAND[j]	50	50	50	57	57	57	57	57	57	57	57
NPCC - U.S.	50	50	50	57	89	89	89	89	129	129	129
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	20	40	60	80	100
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	20	40	60	80	100
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	0	0	0	0	0	0	0	0	0	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	61	90	156	287	369	421	433	438	438	443	443
SERC	61	90	156	287	369	421	433	438	438	443	443
SOUTHEAST	0	0	0	0	0	0	0	0	0	0	0
WEST CENTRAL	49	53	53	228	228	228	228	218	204	204	254
NORTHERN	0	0	0	0	0	0	0	0	0	0	0
SPP	49	53	53	228	228	228	228	218	204	204	254
NWPP - U.S.	102	125	169	184	184	184	184	184	184	184	184
RMPA	6	28	31	51	51	52	61	70	80	92	92
AZ - NM	0	0	0	0	0	0	0	0	0	0	0
CA - SNV	773	840	1,731	2,203	2,542	3,063	3,562	3,710	4,028	4,426	4,678
WSCC - U.S.	881	993	1,931	2,438	2,777	3,299	3,807	3,964	4,292	4,702	4,954

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
INSTALLED REGIONAL GENERATING CAPABILITY - SUMMER - MW

*** TOTAL ***	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	90,115	93,145	97,698	97,798	98,891	100,009	100,967	101,093	102,589	103,853	104,684
ERCOT	44,056	44,368	46,784	50,496	51,759	53,276	54,877	56,608	58,226	60,596	62,442
MAAC	46,183	46,316	47,501	48,474	48,471	48,212	48,211	49,065	49,585	50,210	50,044
MAIN	41,608	45,684	45,659	48,830	49,943	49,953	49,966	49,982	49,865	49,880	49,862
MAPP - U.S.	28,161	28,628	29,057	29,144	29,819	29,809	29,870	29,735	29,779	29,654	30,065
NPCC - U.S.	51,312	51,084	53,052	55,059	54,989	54,939	54,928	55,341	55,200	56,099	55,949
SERC	127,562	130,051	133,310	136,869	139,601	144,161	144,317	148,429	149,109	151,829	152,785
SPP	60,389	64,854	66,801	66,524	66,639	66,369	66,717	68,722	69,222	71,091	72,390
WSCC - U.S.	114,854	112,657	118,861	121,523	123,980	125,460	126,130	128,036	130,185	131,084	133,414
NERC - U.S.	604,240	616,787	638,723	654,717	664,092	672,188	675,983	687,011	693,760	704,296	711,635
MAPP - CANADA	6,422	6,379	6,631	6,631	6,681	6,781	6,881	7,701	8,271	8,391	8,491
NPCC - CANADA	51,288	54,736	56,828	57,685	58,588	60,016	60,585	60,648	61,874	63,416	64,208
WSCC - CANADA	17,271	17,556	17,922	18,288	18,674	19,060	19,014	18,905	18,905	18,905	19,009
NERC - CANADA	74,981	78,671	81,381	82,604	83,943	85,857	86,480	87,254	89,050	90,712	91,708

INSTALLED SUBREGIONAL GENERATING CAPABILITY - SUMMER - MW

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
CMNWLTH ED.	16,504	18,672	18,672	20,882	21,972	21,972	21,972	21,972	21,972	21,972	21,972
EAST MISSOURI	7,160	8,207	8,207	8,207	8,207	8,207	8,237	8,237	8,237	8,237	8,237
SO. CENT. ILL.	9,000	9,020	8,892	9,842	9,842	9,842	9,842	9,842	9,842	9,842	9,804
WIUM	8,944	9,785	9,888	9,899	9,922	9,932	9,915	9,931	9,814	9,829	9,849
MAIN	41,608	45,684	45,659	48,830	49,943	49,953	49,966	49,982	49,865	49,880	49,862
NEW YORK	30,803	30,768	31,586	32,515	32,546	32,496	32,485	32,834	32,877	33,878	33,830
NEW ENGLAND	20,509	20,316	21,466	22,544	22,443	22,443	22,443	22,507	22,323	22,221	22,119
NPCC - U.S.	51,312	51,084	53,052	55,059	54,989	54,939	54,928	55,341	55,200	56,099	55,949
NEW BRUNSWICK	2,928	2,928	3,195	3,195	3,195	3,195	3,195	3,195	3,195	3,195	3,195
ONTARIO	25,357	28,199	29,107	29,895	30,729	31,610	31,630	31,650	32,551	33,452	33,604
QUEBEC	23,003	23,609	24,526	24,595	24,664	25,211	25,760	25,803	26,128	26,769	27,409
NPCC - CANADA	51,288	54,736	56,828	57,685	58,588	60,016	60,585	60,648	61,874	63,416	64,208
FLORIDA	26,265	27,028	27,025	27,575	27,955	28,681	28,789	28,986	29,042	30,166	30,432
SOUTHERN	31,454	32,405	32,497	34,456	34,411	36,981	36,834	38,129	38,253	38,294	38,294
TVA	29,847	29,847	31,017	31,017	32,187	33,399	33,399	34,611	34,611	34,611	34,611
VACAR	39,996	40,771	42,771	43,821	45,048	45,100	45,295	46,703	47,203	48,758	49,448
SERC	127,562	130,051	133,310	136,869	139,601	144,161	144,317	148,429	149,109	151,829	152,785
SOUTHEAST	25,186	27,730	28,700	28,280	28,280	27,910	27,481	28,508	28,624	29,411	29,745
WEST CENTRAL	20,979	21,948	22,905	23,044	23,040	23,140	23,912	24,110	24,365	25,415	25,648
NORTHERN	14,224	15,176	15,196	15,200	15,319	15,319	15,324	16,104	16,233	16,265	16,997
SPP	60,389	64,854	66,801	66,524	66,639	66,369	66,717	68,722	69,222	71,091	72,390
NWPP - U.S.	46,628	43,384	44,133	44,275	45,779	45,834	46,406	46,453	47,735	47,739	49,012
RMPA	8,807	9,364	9,443	9,536	9,590	9,615	9,648	10,235	10,595	10,593	10,900
AZ - NM	11,999	12,424	13,976	15,624	15,914	16,433	16,646	17,326	17,356	17,464	17,564
CA - SNV	47,309	47,913	51,416	52,088	52,619	53,300	53,707	54,506	54,991	55,761	56,421
WSCC - U.S.[k]	114,854	112,657	118,861	121,523	123,980	125,460	126,130	128,036	130,185	131,084	133,414

Footnotes to Installed Generating Capacity

a/ Adverse hydro conditions are routinely assumed for forecast years by most systems. Data for actual year can be greater than for forecast years if median hydro occurred.

b/ Median hydro data is reported by New York and New England.

c/ Includes diesel.

d/ This category is considered to include only those units which can just as easily burn either oil or gas, without limitation, and in which the choice of fuel is determined solely on the relative economics or availability of fuel.

e/ Coal/oil, coal/natural gas, oil/natural gas. Several of these facilities, however, would require the issuance of various permits and would incur some delay before conversion from one fuel to the other.

f/ Oil/natural gas, kerosene/natural gas. Several of these facilities, however, would require the issuance of various permits and would incur some delay before conversion from one fuel to the other.

g/ Includes some solid waste capacity and provision for additional supply options. The annual amounts of cogeneration capacity included in this category from 1984 through 1994 are (in MW) 225; 525; 1,025; 1,200; 1,525; 2,100; 2,100; 2,300; 3,000; 3,600; 4,200.

h/ Includes #6 fuel oil, cogeneration, refinery gas, petroleum coke and oil.

i/ 14 MW steam unit fueled by wood.

j/ Refuse and wood.

k/ Since the subregional peak demands may occur in different months than the coincident total WSCC (U.S.) peak demand, the sum of the individual subregional installed capacities based on those peak demands may not equal the WSCC (U.S.) total.

ANNUAL ELECTRIC GENERATION

The **Annual Electric Generation** data include the electricity projected to be generated by the various types of units and fuels.

These data assume that all planned generating capacity changes will be realized on schedule, and that net annual electric energy requirements for load materialize as forecast.

These data are reported directly to the Electric Council.

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
NET ELECTRICAL ENERGY REQUIREMENTS - MILLION KWH

NERC - U.S.	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
COAL	1,317,421	1,375,229	1,361,151	1,382,811	1,410,259	1,442,277	1,466,938	1,488,414	1,526,177	1,565,300	1,605,625
NUCLEAR	323,686	428,494	505,947	563,439	597,997	616,249	631,708	648,330	655,454	655,631	659,123
HYDRO	318,685[a]	245,112	244,674	244,303	246,238	246,283	249,705	250,078	250,929	250,998	251,079
PS LOAD (-)	16,545	13,960	16,644	16,778	17,633	17,942	18,773	19,348	19,946	20,653	20,649
PS OUTPUT (+)	15,054	13,348	15,387	15,381	16,080	16,412	17,024	17,397	17,857	18,412	18,476
GEOTHERMAL	9,052	10,797	14,463	14,919	15,552	16,730	17,706	19,032	20,367	20,531	20,779
OIL - STEAM	105,629	95,970	82,115	69,177	69,027	74,583	83,321	82,826	94,108	100,740	112,839
OIL - CT	2,133	3,230	2,608	3,343	3,417	3,795	4,608	5,294	4,787	5,242	6,231
OIL - CC	1,221	873	830	700	711	616	605	719	913	927	957
GAS - STEAM	273,657	256,220	237,813	216,048	214,267	207,196	209,852	207,607	212,770	212,868	208,732
GAS - CT	2,742	2,793	2,864	2,931	2,855	3,182	3,380	3,587	3,835	4,144	4,225
GAS - CC	13,621	16,955	14,844	14,810	17,342	17,872	17,571	18,323	18,320	17,465	17,430
OTHER	13,058	13,211	21,315	29,297	35,459	41,731	48,439	53,264	51,255	58,406	60,044
NET GENERATION	2,379,414	2,448,272	2,487,367	2,540,381	2,611,571	2,671,084	2,732,084	2,775,523	2,836,826	2,890,011	2,944,891
IMPORT-EXPORT	66,189	51,111	71,186	73,244	72,911	76,979	83,699	104,729	111,411	123,120	135,721
NET FOR LOAD	2,445,603	2,499,383	2,558,553	2,613,625	2,684,482	2,748,063	2,815,783	2,880,252	2,948,237	3,013,131	3,080,612

NERC - CANADA	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
COAL	73,318	64,184	61,214	56,952	55,679	57,997	60,079	63,993	63,537	64,017	70,045
NUCLEAR	49,528	61,046	68,639	80,540	89,919	93,381	98,287	100,499	108,584	111,848	109,525
HYDRO	196,185	201,586	218,413	224,079	226,628	237,490	239,952	248,403	249,714	253,030	255,365
PS LOAD (-)	160	0	0	0	0	0	0	0	0	0	0
PS OUTPUT (+)	0	0	0	0	0	0	0	0	0	0	0
GEOTHERMAL	0	0	0	0	0	0	0	0	0	0	0
OIL - STEAM	2,059	1,883	1,182	1,366	1,200	1,353	1,495	1,662	1,814	1,940	2,072
OIL - CT	56	72	71	71	42	42	13	19	15	13	49
OIL - CC	0	0	0	0	0	0	0	0	0	0	0
GAS - STEAM	894	1,042	778	1,111	848	717	780	1,245	2,145	3,178	3,918
GAS - CT	590	703	721	346	367	416	797	858	830	864	887
GAS - CC	0	0	0	0	0	0	0	0	0	0	0
OTHER	9	0	0	21	54	87	290	511	735	941	1,177
NET GENERATION	322,479	330,516	351,018	364,486	374,737	391,483	401,693	417,190	427,374	435,831	443,038
IMPORT-EXPORT	-1,870	-1,932	-9,940	-11,477	-9,983	-13,628	-12,340	-15,226	-14,188	-13,222	-10,224
NET FOR LOAD	320,609	328,584	341,078	353,009	364,754	377,855	389,353	401,964	413,186	422,609	432,814

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
NET ELECTRICAL ENERGY REQUIREMENTS BY REGION - MILLION KWH

*** COAL ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	384,295	395,355	379,212	386,478	390,672	402,297	404,806	404,850	410,207	414,852	422,685
ERCOT	71,934	69,846	71,882	76,733	79,110	81,477	83,826	93,505	102,912	111,881	120,784
MAAC	96,460	89,887	89,841	89,266	88,866	91,727	89,052	92,070	93,700	96,363	98,683
MAIN	112,175	111,281	107,812	100,010	101,991	103,560	105,824	107,782	110,106	112,063	113,585
MAPP - U.S.	68,838	78,621	78,681	80,636	85,913	86,696	89,691	91,324	91,918	94,499	96,171
NPCC - U.S.	36,403	39,388	37,389	40,746	46,058	49,184	50,257	50,049	50,763	50,742	51,372
SERC	288,034	321,965	319,140	320,309	318,455	322,823	334,198	334,089	342,923	349,135	353,121
SPP	110,566	114,291	118,023	122,447	126,075	126,886	132,186	133,400	137,662	145,610	154,759
WSCC - U.S.	148,716	154,595	159,171	166,186	173,119	177,627	177,098	181,345	185,986	190,155	194,465
NERC - U.S.	1,317,421	1,375,229	1,361,151	1,382,811	1,410,259	1,442,277	1,466,938	1,488,414	1,526,177	1,565,300	1,605,625
MAPP - CANADA	9,239	8,249	7,747	8,068	8,452	8,750	8,982	9,228	9,818	10,091	10,369
NPCC - CANADA	38,510	29,805	25,960	20,298	17,006	17,393	17,691	20,109	18,330	17,614	22,040
WSCC - CANADA	25,569	26,130	27,507	28,586	30,221	31,854	33,406	34,656	35,389	36,312	37,636
NERC - CANADA	73,318	64,184	61,214	56,952	55,679	57,997	60,079	63,993	63,537	64,017	70,045

NET ELECTRICAL ENERGY REQUIREMENTS BY SUBREGION - MILLION KWH

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	21,702	23,154	21,117	24,214	27,602	27,383	27,789	27,868	28,582	28,561	29,191
NEW ENGLAND	14,701	16,234	16,272	16,532	18,456	21,801	22,468	22,181	22,181	22,181	22,181
NPCC - U.S.	36,403	39,388	37,389	40,746	46,058	49,184	50,257	50,049	50,763	50,742	51,372
NEW BRUNSWICK	1,447	1,420	1,418	1,419	1,419	1,419	1,419	1,419	1,419	1,420	1,419
ONTARIO	37,063	28,385	24,542	18,879	15,587	15,974	16,272	18,690	16,911	16,194	20,621
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	38,510	29,805	25,960	20,298	17,006	17,393	17,691	20,109	18,330	17,614	22,040
FLORIDA	27,550	41,852	42,777	45,832	48,607	51,263	51,452	52,217	52,295	54,482	57,083
SOUTHERN	101,502	123,846	125,285	117,917	117,080	118,145	120,270	123,252	124,083	116,576	113,544
TVA	66,762	66,152	61,680	69,544	66,056	61,626	63,338	60,332	62,758	64,099	65,404
VACAR	92,220	90,115	89,398	87,016	86,712	91,789	99,138	98,288	103,787	113,978	117,090
SERC	288,034	321,965	319,140	320,309	318,455	322,823	334,198	334,089	342,923	349,135	353,121
SOUTHEAST	22,465	25,151	26,797	27,477	28,529	27,553	28,926	28,331	29,836	34,660	38,376
WEST CENTRAL	38,548	45,079	46,059	49,383	50,629	52,312	55,804	56,714	57,923	60,634	63,275
NORTHERN	49,553	44,061	45,167	45,587	46,917	47,021	47,456	48,355	49,903	50,316	53,108
SPP	110,566	114,291	118,023	122,447	126,075	126,886	132,186	133,400	137,662	145,610	154,759
NWPP - U.S.	49,482	55,770	58,783	62,268	64,063	64,343	64,036	64,480	64,729	64,825	65,026
RMPA	30,462	29,266	30,666	31,586	33,261	34,658	35,962	37,121	38,174	39,573	41,025
AZ - NM	40,868	42,335	39,941	40,437	42,955	46,486	46,157	47,675	49,013	49,977	50,580
CA - SNV	27,904	27,224	29,781	31,895	32,840	32,140	30,943	32,069	34,070	35,780	37,834
WSCC - U.S.	148,716	154,595	159,171	166,186	173,119	177,627	177,098	181,345	185,986	190,155	194,465

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
NET ELECTRICAL ENERGY REQUIREMENTS BY REGION - MILLION KWH

*** NUCLEAR ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	22,757	25,702	39,452	40,308	45,915	42,389	47,363	47,796	48,150	48,441	48,678
ERCOT	0	769	4,839	12,937	17,948	24,541	26,072	26,842	26,908	26,877	26,963
MAAC	34,038	54,496	60,263	65,242	67,183	65,249	75,898	72,487	73,869	76,743	72,976
MAIN	44,243	54,659	64,225	77,295	78,518	79,499	80,873	80,172	81,057	81,431	81,519
MAPP - U.S.	19,185	23,120	25,301	25,772	24,761	25,765	24,671	24,553	26,284	24,772	24,750
NPCC - U.S.	45,005	51,036	63,153	71,641	73,320	75,029	72,535	74,280	73,655	74,281	73,548
SERC	123,356	148,232	161,305	168,822	186,730	194,732	194,309	204,938	202,539	201,360	203,443
SPP	11,364	25,016	25,990	31,825	30,076	36,683	33,658	40,299	40,645	38,929	40,883
WSCC - U.S.	23,738	45,464	61,419	69,597	73,546	74,342	76,329	76,963	82,347	82,797	86,363
NERC - U.S.	323,686	428,494	505,947	563,439	597,997	618,249	631,708	648,330	655,454	655,631	659,123
MAPP - CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	49,528	61,046	68,639	80,540	89,919	93,381	98,287	100,499	108,584	111,848	109,525
WSCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	49,528	61,046	68,639	80,540	89,919	93,381	98,287	100,499	108,584	111,848	109,525

NET ELECTRICAL ENERGY REQUIREMENTS BY SUBREGION - MILLION KWH

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	21,196	23,090	27,989	30,565	31,722	32,645	32,335	33,580	32,955	33,591	32,848
NEW ENGLAND	23,809	27,946	35,164	41,076	41,598	42,384	40,200	40,700	40,700	40,700	40,700
NPCC - U.S.	45,005	51,036	63,153	71,641	73,320	75,029	72,535	74,280	73,655	74,281	73,548
NEW BRUNSWICK	5,003	4,718	4,524	4,524	4,524	4,524	4,524	4,524	4,524	4,524	4,524
ONTARIO	40,825	52,328	60,015	71,816	81,195	84,657	89,563	91,775	99,860	103,124	100,801
QUEBEC	3,700	4,000	4,100	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200
NPCC - CANADA	49,528	61,046	68,639	80,540	89,919	93,381	98,287	100,499	108,584	111,848	109,525
FLORIDA	23,377	25,202	25,137	26,586	26,621	25,626	26,842	26,535	25,721	26,756	26,539
SOUTHERN	14,806	19,226	20,058	27,550	30,336	33,479	34,479	34,471	34,186	35,191	35,183
TVA	24,665	29,013	35,649	31,417	41,506	47,076	47,597	52,743	52,717	52,274	52,276
VACAR	60,508	74,791	80,461	83,269	88,267	88,551	85,391	91,189	89,915	87,139	89,445
SERC	123,356	148,232	161,305	168,822	186,730	194,732	194,309	204,938	202,539	201,360	203,443
SOUTHEAST	11,364	20,589	21,619	26,345	25,078	31,049	27,909	34,506	34,992	32,892	34,758
WEST CENTRAL	0	0	0	0	0	0	0	0	0	0	0
NORTHERN	0	4,427	4,371	5,480	4,998	5,634	5,749	5,793	5,653	6,037	6,125
SPP	11,364	25,016	25,990	31,825	30,076	36,683	33,658	40,299	40,645	38,929	40,883
NWPP - U.S.	10,059	16,987	17,730	18,694	18,807	18,694	18,694	18,694	25,913	25,413	28,575
RMPA	82	775	1,273	1,404	1,212	1,171	1,304	1,176	1,308	1,175	1,304
AZ - NM	0	771	9,970	14,867	18,331	18,920	19,378	19,392	19,325	19,245	19,281
CA - SNV	13,597	26,931	32,446	34,632	35,196	35,557	36,953	37,701	35,801	36,964	37,203
WSCC - U.S.	23,738	45,464	61,419	69,597	73,546	74,342	76,329	76,963	82,347	82,797	86,363

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
NET ELECTRICAL ENERGY REQUIREMENTS BY REGION - MILLION KWH

*** HYDRO[a] ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	2,472	2,432	2,432	2,432	2,432	2,432	2,432	2,432	2,432	2,432	2,432
ERCOT	330	338	339	349	350	351	352	353	353	354	355
MAAC	4,221	3,555	3,716	3,716	3,791	3,791	3,791	3,791	3,791	3,791	3,791
MAIN	3,020	2,306	2,306	2,343	2,346	2,346	2,345	2,352	2,354	2,354	2,355
MAPP - U.S.	13,678	13,617	13,561	13,559	13,564	13,539	13,528	13,528	13,582	13,604	13,604
NPCC - U.S.[b]	32,766	28,994	29,027	29,038	29,107	29,132	29,234	29,368	29,506	29,510	29,514
SERC	37,086	31,758	31,298	31,277	31,552	31,409	33,953	33,954	33,992	34,078	34,078
SPP	8,143	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201
WSCC - U.S.	216,969[a]	155,911	155,794	155,388	156,895	157,182	157,869	158,099	158,718	158,674	158,749
NERC - U.S.	318,685	245,112	244,674	244,303	246,238	246,383	249,705	250,078	250,929	250,998	251,079
MAPP - CANADA	22,875	23,896	25,463	25,433	25,433	25,433	25,627	30,599	32,599	32,599	32,599
NPCC - CANADA	126,587	136,753	150,430	155,272	156,871	166,242	167,436	169,808	168,677	172,146	174,476
WSCC - CANADA	46,723	40,937	42,520	43,374	44,324	45,815	46,889	47,996	48,438	48,285	48,290
NERC - CANADA	196,185	201,586	218,413	224,079	226,628	237,490	239,952	248,403	249,714	253,030	255,365

NET ELECTRICAL ENERGY REQUIREMENTS BY SUBREGION - MILLION KWH

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK[b]	27,750	24,154	24,187	24,198	24,267	24,292	24,394	24,528	24,666	24,670	24,674
NEW ENGLAND[b]	5,016	4,840	4,840	4,840	4,840	4,840	4,840	4,840	4,840	4,840	4,840
NPCC - U.S.	32,766	28,994	29,027	29,038	29,107	29,132	29,234	29,368	29,506	29,510	29,514
NEW BRUNSWICK	2,881	2,652	2,652	2,652	2,652	2,652	2,652	2,652	2,652	2,652	2,652
ONTARIO	37,421	36,937	36,144	35,995	35,906	35,600	34,619	34,619	34,619	34,619	35,180
QUEBEC	86,285	97,164	111,634	116,625	118,313	127,990	130,165	132,537	131,406	134,875	136,644
NPCC - CANADA	126,587	136,753	150,430	155,272	156,871	166,242	167,436	169,808	168,677	172,146	174,476
FLORIDA	211	243	254	254	254	254	254	254	254	254	254
SOUTHERN	10,066	8,354	7,885	7,885	7,885	7,742	10,287	10,287	10,297	10,306	10,306
TVA	20,451	17,706	17,706	17,805	18,080	18,080	18,080	18,080	18,108	18,185	18,185
VACAR	6,358	5,455	5,453	5,333	5,333	5,333	5,332	5,333	5,333	5,333	5,333
SERC	37,086	31,758	31,298	31,277	31,552	31,409	33,953	33,954	33,992	34,078	34,078
SOUTHEAST	235	167	167	167	167	167	167	167	167	167	167
WEST CENTRAL	6,246	5,400	5,400	5,400	5,400	5,400	5,400	5,400	5,400	5,400	5,400
NORTHERN	1,662	634	634	634	634	634	634	634	634	634	634
SPP	8,143	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201
NWPP - U.S.	151,468[a]	110,464	111,530	111,211	111,542	111,226	111,256	111,279	111,616	111,285	111,285
RMPA	11,156	9,497	9,514	9,578	9,588	9,581	9,543	9,546	9,548	9,553	9,546
AZ - NM	4,293	2,353	2,315	2,781	3,276	3,417	3,427	3,436	3,493	3,512	3,508
CA - SNV	50,052[a]	33,607	32,435	31,818	32,489	32,958	33,643	33,838	34,061	34,324	34,410
WSCC - U.S.	216,969	155,911	155,794	155,388	156,895	157,182	157,869	158,099	158,718	158,674	158,749

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
NET ELECTRICAL ENERGY REQUIREMENTS BY REGION - MILLION KWH

*** PUMPED STORAGE LOAD - MINUS[c] ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	2,384	2,754	3,334	3,334	3,334	3,334	3,334	3,334	3,334	3,334	3,334
ERCOT	0	0	0	0	0	0	0	0	0	0	0
MAAC	2,467	2,309	2,695	2,847	2,862	2,873	2,971	2,937	2,941	2,982	2,893
MAIN	45	72	47	82	39	22	85	85	92	61	91
MAPP - U.S.	0	0	0	0	0	0	0	0	0	0	0
NPCC - U.S.	4,993	3,491	3,174	3,324	3,595	3,724	4,062	4,069	4,299	4,711	4,833
SERC	3,537	3,234	5,377	4,898	5,429	5,782	6,123	6,541	6,791	6,966	7,019
SPP	168	176	184	0	0	0	0	0	0	0	0
WSCC - U.S.[d]	2,951	1,924	1,833	2,293	2,374	2,207	2,198	2,382	2,489	2,599	2,479
NERC - U.S.	16,545	13,960	16,644	16,778	17,633	17,942	18,773	19,348	19,946	20,653	20,649
MAPP - CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	160	0	0	0	0	0	0	0	0	0	0
WSCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	160	0	0	0	0	0	0	0	0	0	0

NET ELECTRICAL ENERGY REQUIREMENTS BY SUBREGION - MILLION KWH

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	3,160	1,641	1,224	1,224	1,495	1,624	1,962	1,969	2,199	2,611	2,733
NEW ENGLAND	1,833	1,850	1,950	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100
NPCC - U.S.	4,993	3,491	3,174	3,324	3,595	3,724	4,062	4,069	4,299	4,711	4,833
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	160	0	0	0	0	0	0	0	0	0	0
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	160	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	254	669	669	669	669	669	357	581	697	479	521
TVA	1,467	921	1,106	699	994	1,098	1,072	1,273	1,232	1,252	1,233
VACAR	1,816	1,644	3,602	3,530	3,766	4,015	4,694	4,687	4,862	5,235	5,265
SERC	3,537	3,234	5,377	4,898	5,429	5,782	6,123	6,541	6,791	6,966	7,019
SOUTHEAST	0	0	0	0	0	0	0	0	0	0	0
WEST CENTRAL	168	176	184	0	0	0	0	0	0	0	0
NORTHERN	0	0	0	0	0	0	0	0	0	0	0
SPP	168	176	184	0	0	0	0	0	0	0	0
NWPP - U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	187	948	928	1,002	1,108	1,088	1,138	1,106	1,102	1,176	1,088
AZ - NM	372	271	293	277	255	273	207	314	296	273	273
CA - SNV[d]	2,392	705	612	1,014	1,011	846	773	962	1,091	1,150	1,118
WSCC - U.S.	2,951	1,924	1,833	2,293	2,374	2,207	2,198	2,382	2,489	2,599	2,479

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
NET ELECTRICAL ENERGY REQUIREMENTS BY REGION - MILLION KWH

*** PUMPED STORAGE OUTPUT - PLUS ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	1,816	2,099	2,541	2,541	2,541	2,541	2,541	2,541	2,541	2,541	2,541
ERCOT	0	0	0	0	0	0	0	0	0	0	0
MAAC	1,701	1,564	1,826	1,929	1,939	1,947	2,013	1,991	1,993	2,021	1,961
MAIN	16	38	25	42	20	11	44	46	50	32	49
MAPP - U.S.	0	0	0	0	0	0	0	0	0	0	0
NPCC - U.S.	3,427	2,469	2,257	2,357	2,547	2,637	2,874	2,879	3,039	3,390	3,504
SERC	2,749	2,496	4,199	3,783	4,185	4,456	4,680	5,014	5,203	5,333	5,377
SPP	105	110	115	0	0	0	0	0	0	0	0
WSCC - U.S.[d]	5,240	4,572	4,424	4,729	4,848	4,820	4,872	4,926	5,031	5,095	5,044
NERC - U.S.	15,054	13,348	15,387	15,381	16,080	16,412	17,024	17,397	17,857	18,412	18,476
MAPP - CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	0	0	0	0	0	0	0	0	0	0	0

NET ELECTRICAL ENERGY REQUIREMENTS BY SUBREGION - MILLION KWH

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	2,116	1,149	857	857	1,047	1,137	1,374	1,379	1,539	1,890	2,004
NEW ENGLAND	1,311	1,320	1,400	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
NPCC - U.S.	3,427	2,469	2,257	2,357	2,547	2,637	2,874	2,879	3,039	3,390	3,504
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	190	503	503	503	503	503	241	439	530	365	397
TVA	1,147	713	856	541	770	851	830	986	954	969	955
VACAR	1,412	1,280	2,840	2,739	2,912	3,102	3,609	3,589	3,719	3,999	4,025
SERC	2,749	2,496	4,199	3,783	4,185	4,456	4,680	5,014	5,203	5,333	5,377
SOUTHEAST	0	0	0	0	0	0	0	0	0	0	0
WEST CENTRAL	105	110	115	0	0	0	0	0	0	0	0
NORTHERN	0	0	0	0	0	0	0	0	0	0	0
SPP	105	110	115	0	0	0	0	0	0	0	0
NWPP - U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	214	750	740	777	830	820	845	829	827	864	820
AZ - NM	259	190	205	194	179	191	201	220	207	191	207
CA - SNV[d]	4,767	3,632	3,479	3,758	3,839	3,809	3,826	3,877	3,997	4,040	4,017
WSCC - U.S.	5,240	4,572	4,424	4,729	4,848	4,820	4,872	4,926	5,031	5,095	5,044

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
NET ELECTRICAL ENERGY REQUIREMENTS BY REGION - MILLION KWH

*** GEOTHERMAL ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	0	0	0	0	0	0	0	0	0	0	0
MAAC	0	0	0	0	0	0	0	0	0	0	0
MAIN	0	0	0	0	0	0	0	0	0	0	0
MAPP - U.S.	0	0	0	0	0	0	0	0	0	0	0
NPCC - U.S.	0	0	0	0	0	0	0	0	0	0	0
SERC	0	0	0	0	0	0	0	0	0	0	0
SPP	0	0	0	0	0	0	0	0	0	0	0
WSCC - U.S.	9,052	10,797	14,463	14,919	15,552	16,730	17,706	19,032	20,367	20,531	20,779
NERC - U.S.	9,052	10,797	14,463	14,919	15,552	16,730	17,706	19,032	20,367	20,531	20,779
MAPP - CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	0	0	0	0	0	0	0	0	0	0	0

NET ELECTRICAL ENERGY REQUIREMENTS BY SUBREGION - MILLION KWH

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	0	0	0	0	0	0	0	0	0	0	0
NPCC - U.S.	0	0	0	0	0	0	0	0	0	0	0
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	0	0	0	0	0	0	0	0	0	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	0	0	0	0	0
SERC	0	0	0	0	0	0	0	0	0	0	0
SOUTHEAST	0	0	0	0	0	0	0	0	0	0	0
WEST CENTRAL	0	0	0	0	0	0	0	0	0	0	0
NORTHERN	0	0	0	0	0	0	0	0	0	0	0
SPP	0	0	0	0	0	0	0	0	0	0	0
NWPP - U.S.	37	131	131	189	240	288	335	383	432	430	430
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ - NM	0	36	36	39	39	39	39	39	39	39	39
CA - SNV	9,015	10,630	14,296	14,691	15,273	16,403	17,332	18,610	19,896	20,062	20,310
WSCC - U.S.	9,052	10,797	14,463	14,919	15,552	16,730	17,706	19,032	20,367	20,531	20,779

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
NET ELECTRICAL ENERGY REQUIREMENTS BY REGION - MILLION KWH

*** OIL - STEAM ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	1,006	1,337	1,337	1,337	1,376	1,416	1,430	1,461	1,479	1,479	1,479
ERCOT	286	531	553	543	554	556	557	568	614	627	687
MAAC	17,558	11,367	8,628	6,454	7,688	9,703	7,181	9,589	9,955	8,903	11,899
MAIN	2,211	2,797	2,407	1,051	1,154	1,201	1,565	2,198	2,267	3,264	3,991
MAPP - U.S.	48	73	131	89	81	94	110	122	161	138	144
NPCC - U.S.	61,623	63,686	51,402	41,397	37,999	38,755	44,136	39,189	45,164	48,767	54,077
SERC	20,184	13,828	15,060	15,803	16,555	18,260	20,744	22,518	26,250	28,127	29,957
SPP	329	823	1,580	1,752	2,330	2,337	2,573	2,204	2,362	4,107	3,589
WSCC - U.S.	2,384	1,528	1,017	751	1,290	2,261	5,025	4,977	5,856	5,328	7,016
NERC - U.S.	105,629	95,970	82,115	69,177	69,027	74,583	83,321	82,826	94,108	100,740	112,839
MAPP - CANADA	15	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	2,044	1,883	1,182	1,366	1,200	1,353	1,495	1,662	1,814	1,940	2,072
WSCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	2,059	1,883	1,182	1,366	1,200	1,353	1,495	1,662	1,814	1,940	2,072

NET ELECTRICAL ENERGY REQUIREMENTS BY SUBREGION - MILLION KWH

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	28,508	32,479	28,712	26,928	24,447	28,529	32,489	32,257	34,369	35,473	37,637
NEW ENGLAND	33,115	31,207	22,690	14,469	13,552	10,226	11,647	6,932	10,795	13,294	16,440
NPCC - U.S.	61,623	63,686	51,402	41,397	37,999	38,755	44,136	39,189	45,164	48,767	54,077
NEW BRUNSWICK	2,044	1,883	1,182	1,366	1,200	1,353	1,495	1,662	1,814	1,940	2,072
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	2,044	1,883	1,182	1,366	1,200	1,353	1,495	1,662	1,814	1,940	2,072
FLORIDA	18,902	12,615	14,081	14,952	15,640	16,982	18,834	20,276	23,037	26,544	27,931
SOUTHERN	32	180	188	63	53	31	14	11	11	10	10
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	1,250	1,033	791	788	862	1,247	1,896	2,231	3,142	1,573	2,016
SERC	20,184	13,828	15,060	15,803	16,555	18,260	20,744	22,518	26,250	28,127	29,957
SOUTHEAST	260	743	1,489	1,660	2,225	2,218	2,436	2,063	2,219	3,965	3,445
WEST CENTRAL	42	51	60	61	75	85	105	105	105	105	105
NORTHERN	27	29	31	31	30	34	32	36	38	37	39
SPP	329	823	1,580	1,752	2,330	2,337	2,573	2,204	2,362	4,107	3,589
NWPP - U.S.	1	0	0	0	18	18	96	96	97	96	96
RMPA	2	6	5	13	136	143	47	20	15	23	14
AZ - NM	225	240	13	9	6	14	14	17	263	400	400
CA - SNV	2,156	1,282	999	729	1,130	2,086	4,868	4,844	5,481	4,899	6,506
WSCC - U.S.	2,384	1,528	1,017	751	1,290	2,261	5,025	4,977	5,856	5,328	7,016

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
NET ELECTRICAL ENERGY REQUIREMENTS BY REGION - MILLION KWH

*** OIL - COMBUSTION TURBINE[e] ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	114	186	186	186	186	186	186	176	182	195	212
ERCOT	0	0	1	1	134	134	674	744	975	1,108	1,276
MAAC	1,104	317	232	203	210	256	229	292	301	297	437
MAIN	19	102	89	67	53	45	88	99	133	176	294
MAPP - U.S.	8	26	49	155	122	194	239	287	397	405	299
NPCC - U.S.	367	1,686	1,006	1,653	1,414	1,497	1,393	1,597	387	634	959
SERC	294	434	467	390	378	408	502	565	653	598	649
SPP	134	57	68	78	33	91	215	394	454	408	596
WSCC - U.S.	93	422	510	610	887	984	1,082	1,140	1,305	1,421	1,509
NERC - U.S.	2,133	3,230	2,608	3,343	3,417	3,795	4,608	5,294	4,787	5,242	6,231
MAPP - CANADA	47	45	44	42	13	13	11	10	3	2	2
NPCC - CANADA	9	27	27	29	29	29	2	9	12	11	47
WSCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	56	72	71	71	42	42	13	19	15	13	49

NET ELECTRICAL ENERGY REQUIREMENTS BY SUBREGION - MILLION KWH

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	213	1,586	906	1,553	1,314	1,397	1,343	1,547	287	334	459
NEW ENGLAND	154	100	100	100	100	100	50	50	100	300	500
NPCC - U.S.	367	1,686	1,006	1,653	1,414	1,497	1,393	1,597	387	634	959
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	9	27	27	29	29	29	2	9	12	11	47
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	9	27	27	29	29	29	2	9	12	11	47
FLORIDA	268	191	194	195	202	217	245	340	337	320	332
SOUTHERN	14	118	175	60	56	24	18	8	8	9	9
TVA	4	24	8	48	29	15	28	18	31	42	63
VACAR	8	101	90	87	91	152	211	199	277	227	245
SERC	294	434	467	390	378	408	502	565	653	598	649
SOUTHEAST	38	0	0	0	2	2	8	55	102	151	310
WEST CENTRAL	1	0	0	0	0	29	100	162	223	100	162
NORTHERN	95	57	68	78	31	60	107	177	129	157	124
SPP	134	57	68	78	33	91	215	394	454	408	596
NWPP - U.S.	0	0	0	0	211	211	211	211	211	211	211
RMPA	0	1	2	11	43	45	37	19	17	27	18
AZ - NM	2	22	14	15	15	15	15	15	90	90	90
CA - SNV	91	399	494	584	618	713	819	895	987	1,093	1,190
WSCC - U.S.	93	422	510	610	887	984	1,082	1,140	1,305	1,421	1,509

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
NET ELECTRICAL ENERGY REQUIREMENTS BY REGION - MILLION KWH

*** OIL - COMBINED CYCLE ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	14	22	22	22	22	22	22	22	22	35	49
ERCOT	2	0	0	0	0	0	0	0	0	0	0
MAAC	305	82	69	64	74	83	69	84	82	79	90
MAIN	1	0	0	0	0	0	0	0	0	0	0
MAPP - U.S.	0	1	1	3	4	0	1	1	1	2	7
NPCC - U.S.	829	700	700	600	600	500	500	600	800	800	800
SERC	52	1	1	1	1	1	2	2	2	5	5
SPP	0	0	0	0	0	0	0	0	0	0	0
WSCC - U.S.	18	67	37	10	10	10	11	10	6	6	6
NERC - U.S.	1,221	873	830	700	711	616	605	719	913	927	957
MAPP - CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	0	0	0	0	0	0	0	0	0	0	0

NET ELECTRICAL ENERGY REQUIREMENTS BY SUBREGION - MILLION KWH

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	829	700	700	600	600	500	500	600	800	800	800
NPCC - U.S.	829	700	700	600	600	500	500	600	800	800	800
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	52	1	1	1	1	1	2	2	2	5	5
SOUTHERN	0	0	0	0	0	0	0	0	0	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	0	0	0	0	0
SERC	52	1	1	1	1	1	2	2	2	5	5
SOUTHEAST	0	0	0	0	0	0	0	0	0	0	0
WEST CENTRAL	0	0	0	0	0	0	0	0	0	0	0
NORTHERN	0	0	0	0	0	0	0	0	0	0	0
SPP	0	0	0	0	0	0	0	0	0	0	0
NWPP - U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ - NM	0	54	1	0	0	0	4	3	0	0	0
CA - SNV	18	13	36	10	10	10	7	7	6	6	6
WSCC - U.S.	18	67	37	10	10	10	11	10	6	6	6

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
NET ELECTRICAL ENERGY REQUIREMENTS BY REGION - MILLION KWH

*** GAS - STEAM ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	91	102	102	20	20	20	20	20	20	20	20
ERCOT	93,001	95,999	91,272	81,092	80,603	77,769	81,978	79,844	78,158	78,302	74,563
MAAC	8,189	5,281	5,333	4,844	5,313	5,207	5,042	5,333	5,506	5,386	6,189
MAIN	415	276	96	35	34	47	56	103	109	141	162
MAPP - U.S.	211	230	150	155	156	165	186	204	209	204	228
NPCC - U.S.	18,391	14,021	13,757	14,125	9,822	4,911	936	900	881	895	912
SERC	14,716	4,888	5,112	4,153	4,033	4,259	4,911	5,347	6,474	6,635	6,889
SPP	82,665	65,938	64,468	63,149	65,271	65,479	69,521	70,280	74,252	75,145	72,979
WSCC - U.S.	55,978	69,485	57,523	48,475	49,015	49,339	47,202	45,576	47,161	46,140	46,790
NERC - U.S.	273,657	256,220	237,813	216,048	214,267	207,196	209,852	207,607	212,770	212,868	208,732
MAPP - CANADA	306	104	46	67	72	75	80	81	44	58	63
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC - CANADA	588	938	732	1,044	776	642	700	1,164	2,101	3,120	3,855
NERC - CANADA	894	1,042	778	1,111	848	717	780	1,245	2,145	3,178	3,918

NET ELECTRICAL ENERGY REQUIREMENTS BY SUBREGION - MILLION KWH

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	15,398	14,021	13,757	14,125	9,822	4,911	936	900	881	895	912
NEW ENGLAND[f]	2,993	0	0	0	0	0	0	0	0	0	0
NPCC - U.S.	18,391	14,021	13,757	14,125	9,822	4,911	936	900	881	895	912
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	14,338	4,132	4,299	3,838	3,787	4,002	4,627	5,100	6,154	6,363	6,620
SOUTHERN	84	566	576	223	181	130	110	87	85	93	91
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	294	190	237	92	65	127	174	160	235	179	178
SERC	14,716	4,888	5,112	4,153	4,033	4,259	4,911	5,347	6,474	6,635	6,889
SOUTHEAST	50,711	38,639	36,080	35,606	36,810	36,282	39,031	37,823	40,204	39,799	37,654
WEST CENTRAL	29,634	25,849	26,463	25,807	26,287	26,908	28,087	29,908	31,543	32,379	32,613
NORTHERN	2,320	1,450	1,925	1,736	2,174	2,289	2,403	2,549	2,505	2,967	2,712
SPP	82,665	65,938	64,468	63,149	65,271	65,479	69,521	70,280	74,252	75,145	72,979
NWPP - U.S.	264	774	796	771	799	797	885	894	887	911	911
RMPA	282	237	247	245	254	277	228	210	276	226	207
AZ - NM	3,034	3,776	3,099	2,418	2,453	2,599	2,290	2,135	2,358	2,571	2,805
CA - SNV	52,398	64,698	53,381	45,041	45,509	45,666	43,799	42,337	43,640	42,432	42,867
WSCC - U.S.	55,978	69,485	57,523	48,475	49,015	49,339	47,202	45,576	47,161	46,140	46,790

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
NET ELECTRICAL ENERGY REQUIREMENTS BY REGION - MILLION KWH

*** GAS - COMBUSTION TURBINE[e] ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	67	110	110	110	110	110	113	116	119	123	122
ERCOT	278	78	28	31	110	80	202	215	286	371	411
MAAC	427	584	559	503	407	455	444	525	518	519	663
MAIN	73	199	158	87	92	95	118	172	221	298	436
MAPP - U.S.	24	69	95	109	120	122	127	133	132	140	140
NPCC - U.S.	325	257	252	259	178	89	17	17	16	16	17
SERC	381	280	307	299	300	370	141	68	123	122	87
SPP	121	124	145	180	203	285	388	539	589	772	664
WSCC - U.S.	1,046	1,092	1,210	1,353	1,335	1,576	1,830	1,802	1,831	1,783	1,685
NERC - U.S.	2,742	2,793	2,864	2,931	2,855	3,182	3,380	3,587	3,835	4,144	4,225
MAPP - CANADA	37	30	17	8	35	86	143	183	108	132	146
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC - CANADA	553	673	704	338	332	330	654	675	722	732	741
NERC - CANADA	590 /	703	721	346	367	416	797	858	830	864	887

NET ELECTRICAL ENERGY REQUIREMENTS BY SUBREGION - MILLION KWH

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	279	257	252	259	178	89	17	17	16	16	17
NEW ENGLAND[f]	46	0	0	0	0	0	0	0	0	0	0
NPCC - U.S.	325	257	252	259	178	89	17	17	16	16	17
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	118	0	0	0	0	0	1	3	3	1	1
SOUTHERN	234	244	245	236	237	244	2	2	2	2	2
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	29	36	62	63	63	126	138	63	118	119	84
SERC	381	280	307	299	300	370	141	68	123	122	87
SOUTHEAST	14	19	60	53	45	66	65	91	112	134	145
WEST CENTRAL	69	3	1	1	1	3	5	6	20	60	95
NORTHERN	38	102	84	126	157	216	318	442	457	578	424
SPP	121	124	145	180	203	285	388	539	589	772	664
NWPP - U.S.	2	0	0	245	246	245	245	245	246	245	245
RMPA	6	25	20	32	125	131	109	54	49	78	53
AZ - NM	943	185	216	127	117	137	117	109	125	168	185
CA - SNV	95	882	974	949	847	1,063	1,359	1,394	1,411	1,292	1,202
WSCC - U.S.	1,046	1,092	1,210	1,353	1,335	1,576	1,830	1,802	1,831	1,783	1,685

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
NET ELECTRICAL ENERGY REQUIREMENTS BY REGION - MILLION KWH

*** GAS - COMBINED CYCLE ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	5,084	4,240	3,900	3,429	3,846	3,803	3,598	3,655	3,468	3,626	3,486
MAAC	655	740	622	577	666	743	617	757	738	711	813
MAIN	0	0	0	0	0	0	0	0	0	0	0
MAPP - U.S.	4	10	0	0	0	0	0	0	0	0	4
NPCC - U.S.	393	0	0	0	0	0	0	0	0	0	0
SERC	1,543	2,774	2,269	2,452	2,475	2,545	2,607	3,042	3,206	1,852	1,865
SPP	3,109	2,386	2,043	2,288	2,436	2,649	2,814	2,815	3,064	3,210	3,225
WSCC - U.S.	2,833	6,805	6,010	6,064	7,919	8,132	7,935	8,054	7,844	8,066	8,037
NERC - U.S.	13,621	16,955	14,844	14,810	17,342	17,872	17,571	18,323	18,320	17,465	17,430
MAPP - CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	0	0	0	0	0	0	0	0	0	0	0

NET ELECTRICAL ENERGY REQUIREMENTS BY SUBREGION - MILLION KWH

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	393	0	0	0	0	0	0	0	0	0	0
NPCC - U.S.	393	0	0	0	0	0	0	0	0	0	0
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	1,543	2,774	2,269	2,452	2,475	2,545	2,504	2,655	2,885	1,458	1,499
SOUTHERN	0	0	0	0	0	0	0	0	0	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	103	387	321	394	366
SERC	1,543	2,774	2,269	2,452	2,475	2,545	2,607	3,042	3,206	1,852	1,865
SOUTHEAST	189	2	1	1	2	2	8	15	11	15	56
WEST CENTRAL	2,890	2,352	2,011	2,285	2,413	2,608	2,763	2,736	2,992	3,146	3,126
NORTHERN	30	32	31	2	21	39	43	64	61	49	43
SPP	3,109	2,386	2,043	2,288	2,436	2,649	2,814	2,815	3,064	3,210	3,225
NWPP - U.S.	0	193	0	391	2,495	2,479	2,479	2,479	2,495	2,479	2,479
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ - NM	1,855	2,448	1,809	1,476	1,224	1,463	1,334	1,450	1,266	1,515	1,484
CA - SNV	978	4,164	4,201	4,197	4,200	4,190	4,122	4,125	4,083	4,072	4,074
WSCC - U.S.	2,833	6,805	6,010	6,064	7,919	8,132	7,935	8,054	7,844	8,066	8,037

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
NET ELECTRICAL ENERGY REQUIREMENTS BY REGION - MILLION KWH

*** OTHER ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	0	0	0	0	45	237	314	313	311	312	312
MAAC	1,023[g]	1,422[h]	1,740[h]	2,080[i]	2,414[i]	2,407[i]	2,132[i]	2,133[i]	2,140[i]	2,134[i]	2,134[i]
MAIN	11	441	580	674	705	737	846	927	961	998	1,025
MAPP - U.S.[j]	68	0	0	0	0	0	0	0	0	0	0
NPCC - U.S.	1,127	1,870	3,470	4,990	7,117	8,680	9,215	9,715	10,014	10,450	10,650
SERC	4,241	2,894	4,093	5,448	7,774	7,804	7,518	7,950	8,469	8,730	8,999
SPP	863	812	1,045	1,848	1,932	1,949	1,924	1,969	1,975	2,092	2,333
WSCC - U.S.[m]	5,725	5,772	10,387	14,257	15,472	19,917	26,490	30,257	27,385	33,690	34,591
NERC - U.S.	13,658	13,211	21,315	29,297	35,459	41,731	48,439	53,264	51,255	58,406	60,944
MAPP - CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	140	280	420	560	709
WSCC - CANADA	9	0	0	21	54	87	150	231	315	381	468
NERC - CANADA	9	0	0	21	54	87	290	511	735	941	1,177

NET ELECTRICAL ENERGY REQUIREMENTS BY SUBREGION - MILLION KWH

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK[k]	0	0	0	0	127	190	190	190	289	425	425
NEW ENGLAND[l]	1,127	1,870	3,470	4,990	6,990	8,490	9,025	9,525	9,725	10,025	10,225
NPCC - U.S.	1,127	1,870	3,470	4,990	7,117	8,680	9,215	9,715	10,014	10,450	10,650
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	140	280	420	560	709
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	140	280	420	560	709
FLORIDA	3,109	1,165	1,496	2,386	3,053	3,325	3,531	3,781	4,056	4,085	4,111
SOUTHERN	179	599	1,095	810	1,605	800	0	0	0	0	0
TVA	383	368	429	517	613	701	797	920	1,139	1,358	1,586
VACAR	570	762	1,073	1,735	2,503	2,978	3,190	3,249	3,274	3,287	3,302
SERC	4,241	2,894	4,093	5,448	7,774	7,804	7,518	7,950	8,469	8,730	8,999
SOUTHEAST	609	575	657	657	657	657	657	657	657	657	657
WEST CENTRAL	254	237	388	1,191	1,275	1,292	1,267	1,312	1,318	1,435	1,676
NORTHERN	0	0	0	0	0	0	0	0	0	0	0
SPP	863	812	1,045	1,848	1,932	1,949	1,924	1,969	1,975	2,092	2,333
NWPP - U.S.[m]	779	735	1,076	1,186	1,189	2,927	6,463	9,438	5,809	9,849	10,112
RMPA	10	110	142	246	246	246	273	333	368	426	494
AZ - NM	0	0	0	0	0	0	0	0	0	0	0
CA - SNV	4,936	4,927	9,169	12,825	14,037	16,744	19,754	20,486	21,208	23,415	23,985
WSCC - U.S.	5,725	5,772	10,387	14,257	15,472	19,917	26,490	30,257	27,385	33,690	34,591

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
NET ELECTRICAL ENERGY REQUIREMENTS BY REGION - MILLION KWH

*** TOTAL NET GENERATION ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	410,248	424,591	422,060	430,100	439,940	448,079	455,579	456,080	461,818	466,784	474,884
ERCOT	170,915	171,801	172,814	175,115	182,700	188,948	197,573	206,039	213,985	223 458	228,837
MAAC	163,214	166,986	170,134	172,031	175,689	178,695	183,497	186,115	189,652	193,965	196,743
MAIN	162,139	172,027	177,651	181,522	184,874	187,519	191,674	193,766	197,166	200,696	203,325
MAPP - U.S.	102,064	115,767	117,969	120,478	124,721	126,595	128,553	130,152	132,684	133,764	135,347
NPCC - U.S.	195,663	200,616	199,239	203,482	204,567	206,690	207,035	204,525	209,926	214,774	220,520
SERC	489,099	526,316	537,874	547,839	567,009	581,285	597,442	610,946	623,043	629,009	637,451
SPP	217,231	215,582	219,494	229,768	234,557	242,560	249,480	258,101	267,204	276,474	285,229
WSCC - U.S.	468,841	454,586	470,132	480,046	497,514	510,713	521,251	529,799	541,348	551,087	562,555
NERC - U.S.	2,379,414	2,448,272	2,487,367	2,540 381	2,611,571	2,671,084	2,732,084	2,775,523	2,836,826	2,890,011	2,944,891
MAPP - CANADA	32,519	32,324	33,317	33,618	34,005	34,357	34,843	40,101	42,572	42,882	43,179
NPCC - CANADA	216,518	229,514	246,238	257,505	265,025	278,398	285,051	292,367	297,837	304,119	308,869
WSCC - CANADA	73,442	68,678	71,463	73,363	75,707	78,728	81,799	84,722	86,965	88,830	90,990
NERC - CANADA	322,479	330,516	351,018	364,486	374,737	391,483	401 693	417,190	427,374	435,831	443,038

NET ELECTRICAL ENERGY REQUIREMENTS BY SUBREGION - MILLION KWH

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	114,002	118,249	116,553	121,475	119,031	118,949	118,905	120,297	121,385	123,234	125,434
NEW ENGLAND	81,661	82,367	82,686	82,007	85,536	87,741	88,130	84,228	88,541	91,540	95,086
NPCC - U.S.	195,663	200,616	199,239	203,482	204,567	206,690	207,035	204,525	209,926	214,774	220,520
NEW BRUNSWICK	11,375	10,673	9,776	9,961	9,795	9,948	10,090	10,257	10,409	10,536	10,667
ONTARIO	115,158	117,677	120,728	126,719	132,717	136,260	140,596	145,373	151,822	154,508	157,358
QUEBEC	89,985	101,164	115,734	120,825	122,513	132,190	134,365	136,737	135,606	139,075	140,844
NPCC - CANADA	216,518	229,514	246,238	257,505	265,025	278,398	285,051	292,367	297,837	304,119	308,869
FLORIDA	89,468	88,175	90,508	96,496	100,640	104,215	108,292	111,163	114,804	120,268	124,375
SOUTHERN	126,853	152,967	155,341	154,578	157,267	160,429	165,064	167,976	168,505	162,073	159,021
TVA	111,945	113,055	115,222	119,173	126,060	127,251	129,598	131,806	134,475	135,675	137,236
VACAR	160,833	172,119	176,803	177,592	183,042	189,390	194,488	200,001	205,259	210,993	216,819
SERC	489,099	526,316	537,874	547,839	567,009	581,285	597,442	610,946	623,043	629,009	637,451
SOUTHEAST	85,885	85,885	86,870	91,966	93,515	97,996	99,207	103,708	108,300	112,440	115,568
WEST CENTRAL	77,621	78,905	80,313	84,128	86,080	88,637	93,531	96,343	99,524	103,259	106,452
NORTHERN	53,725	50,792	52,311	53,674	54,962	55,927	56,742	58,050	59,380	60,775	63,209
SPP	217,231	215,582	219,494	229,768	234,557	242,560	249,480	258,101	267,204	276,474	285,229
NWPP - U.S.	212,092	185,054	190,046	194,955	199,610	201,228	204,700	208,199	212,435	215,744	219,370
RMPA	42,027	39,709	41,681	42,890	44,587	45,984	47,210	48,202	49,480	50,769	52,393
AZ - NM	51,107	52,139	57,326	62,086	68,340	73,008	72,689	74,177	75,883	77,435	78,306
CA - SNV	163,615	177,684	181,079	180,115	184,977	190,493	196,652	199,221	203,550	207,139	212,486
WSCC - U.S.	468,841	454,586	470,132	480,046	497,514	510,713	521,251	529,799	541,348	551,087	562,555

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
NET ELECTRICAL ENERGY REQUIREMENTS BY REGION - MILLION KWH

*** ENERGY IMPORT MINUS EXPORT ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	-27,219	-33,691	-24,260	-24,700	-23,340	-21,979	-21,979	-14,480	-12,518	-9,684	-9,684
ERCOT	14,368	21,546	26,776	29,428	29,427	31,418	31,614	32,110	33,416	33,417	37,691
MAAC	22,820	21,288	21,309	20,694	20,920	21,736	20,760	21,990	22,317	21,845	22,920
MAIN	8,791	2,523	342	-209	-314	558	112	1,762	2,021	2,203	3,315
MAPP - U.S.	3,314	-6,543	-5,511	-5,626	-6,902	-5,873	-4,681	-3,402	-2,934	-925	433
NPCC - U.S.	21,792	20,533	26,010	24,308	26,709	27,486	30,544	37,566	37,085	36,077	35,467
SERC	13,816	-9,180	-7,294	-3,758	-2,914	-2,243	-684	-48	2,590	10,577	16,837
SPP	8,411	12,613	13,393	8,890	10,685	9,662	9,660	7,976	6,869	4,790	3,147
WSCC - U.S.	96	22,022	20,421	24,217	18,640	16,214	18,353	21,255	22,565	24,820	25,595
NERC - U.S.	66,189	51,111	71,186	73,244	72,911	76,979	83,699	104,729	111,411	123,120	135,721
MAPP - CANADA	-6,854	-6,434	-6,725	-5,565	-5,036	-4,614	-4,371	-8,967	-10,630	-10,144	-9,640
NPCC - CANADA [o]	11,497	4,502	-2,905	-5,602	-4,637	-8,704	-7,659	-5,949	-3,248	-2,768	-274
WSCC - CANADA	-6,513	0	-310	-310	-310	-310	-310	-310	-310	-310	-310
NERC - CANADA	-1,870	-1,932	-9,940	-11,477	-9,983	-13,628	-12,340	-15,226	-14,188	-13,222	-10,224

NET ELECTRICAL ENERGY REQUIREMENTS BY SUBREGION - MILLION KWH

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	10,336	7,711	11,715	8,202	12,089	13,278	14,666	14,952	15,936	15,926	15,914
NEW ENGLAND	11,456	12,822	14,295	16,106	14,620	14,208	15,878	22,614	21,149	20,151	19,553
NPCC - U.S.	21,792	20,533	26,010	24,308	26,709	27,486	30,544	37,566	37,085	36,077	35,467
NEW BRUNSWICK	-1,538	-446	784	975	1,547	1,750	1,891	2,021	2,172	2,342	2,506
ONTARIO	-2,865	-3,142	-3,479	-5,977	-8,734	-9,254	-10,800	-11,500	-13,900	-13,500	-13,000
QUEBEC [o]	15,900	8,090	-210	-600	2,550	-1,200	1,250	3,530	8,480	8,390	10,220
NPCC - CANADA	11,497	4,502	-2,905	-5,602	-4,637	-8,704	-7,659	-5,949	-3,248	-2,768	-274
FLORIDA	14,263	19,049	20,080	17,698	17,290	17,528	17,659	18,297	18,456	16,824	16,472
SOUTHERN	-6,751	-31,370	-31,950	-27,539	-26,677	-26,580	-25,996	-26,005	-23,587	-14,365	-8,377
TVA	-1,106	51	106	-39	-228	131	187	297	-34	361	375
VACAR	7,410	3,090	4,470	6,122	6,701	6,678	7,466	7,363	7,755	7,757	8,367
SERC	13,816	-9,180	-7,294	-3,758	-2,914	-2,243	-684	-48	2,590	10,577	16,837
SOUTHEAST	21,164	20,104	19,976	16,837	17,747	16,119	17,643	15,510	14,214	12,857	12,208
WEST CENTRAL	-5,607	-3,815	-2,299	-3,681	-2,809	-2,534	-4,417	-3,943	-3,792	-4,386	-4,736
NORTHERN	-7,146	-3,676	-4,284	-4,266	-4,253	-3,923	-3,566	-3,591	-3,553	-3,681	-4,325
SPP	8,411	12,613	13,393	8,890	10,685	9,662	9,660	7,976	6,869	4,790	3,147
NWPP - U.S.	-28,106	741	147	-138	-1,143	55	40	73	8	-8	-25
RMPA	-8,939	-3,713	-3,456	-3,125	-3,286	-3,237	-3,194	-3,093	-3,130	-3,090	-3,038
AZ - NM	-4,412	-5,357	-8,373	-9,248	-12,847	-15,392	-12,974	-12,442	-11,682	-11,062	-10,172
CA - SNV	41,553	30,351	32,103	36,728	35,916	34,788	34,481	36,717	37,369	38,980	38,830
WSCC - U.S.	96	22,022	20,421	24,217	18,640	16,214	18,353	21,255	22,565	24,820	25,595

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
NET ELECTRICAL ENERGY REQUIREMENTS BY REGION - MILLION KWH

*** NET ENERGY FOR LOAD ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	383,029	390,900	397,800	405,400	416,600	426,100	433,600	441,600	449,300	457,100	465,200
ERCOT	185,283	193,347	199,590	204,543	212,127	220,366	229,187	238,149	247,401	256,875	266,528
MAAC	186,034	188,274	191,443	192,725	196,609	200,431	204,257	208,105	211,969	215,810	219,663
MAIN	170,930	174,550	177,993	181,313	184,560	188,077	191,786	195,528	199,187	202,899	206,640
MAPP - U.S.	105,378	109,224	112,458	114,852	117,819	120,722	123,872	126,750	129,750	132,839	135,780
NPCC - U.S.	217,455	221,149	225,249	227,790	231,276	234,176	237,579	242,091	247,011	250,851	255,987
SERC	502,915	517,136	530,580	544,081	564,095	579,042	596,758	610,898	625,633	639,586	654,288
SPP	225,642	228,195	232,887	238,658	245,242	252,222	259,140	266,077	274,073	281,264	288,376
WSCC - U.S.	468,937	476,608	490,553	504,263	516,154	526,927	539,604	551,054	563,913	575,907	588,150
NERC - U.S.	2,445,603	2,499,383	2,558,553	2,613,625	2,684,482	2,748,063	2,815,783	2,880,252	2,948,237	3,013,131	3,080,612
MAPP - CANADA	25,665	25,890	26,592	28,053	28,969	29,743	30,472	31,134	31,942	32,738	33,539
NPCC - CANADA	228,015	234,016	243,333	251,903	260,388	269,694	277,392	286,418	294,589	301,351	308,595
WSCC - CANADA	66,929	68,678	71,153	73,053	75,397	78,418	81,489	84,412	86,655	88,520	90,680
NERC - CANADA	320,609	328,584	341,078	353,009	364,754	377,855	389,353	401,964	413,186	422,609	432,814

NET ELECTRICAL ENERGY REQUIREMENTS BY SUBREGION - MILLION KWH

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	124,338	125,960	128,268	129,677	131,120	132,227	133,571	135,249	137,321	139,160	141,348
NEW ENGLAND	93,117	95,189	96,981	98,113	100,156	101,949	104,008	106,842	109,690	111,691	114,639
NPCC - U.S.	217,455	221,149	225,249	227,790	231,276	234,176	237,579	242,091	247,011	250,851	255,987
NEW BRUNSWICK	9,837	10,227	10,560	10,936	11,342	11,698	11,981	12,278	12,581	12,878	13,173
ONTARIO	112,293	114,535	117,249	120,742	123,983	127,006	129,796	133,873	137,922	141,008	144,358
QUEBEC P	105,885	109,254	115,524	120,225	125,063	130,990	135,615	140,267	144,086	147,465	151,064
NPCC - CANADA	228,015	234,016	243,333	251,903	260,388	269,694	277,392	286,418	294,589	301,351	308,595
FLORIDA	103,731	107,224	110,588	114,194	117,930	121,743	125,951	129,460	133,260	137,092	140,847
SOUTHERN	120,102	121,597	123,391	127,039	130,590	133,849	139,068	141,971	144,918	147,708	150,644
TVA	110,839	113,106	115,328	119,134	125,832	127,382	129,785	132,103	134,441	136,036	137,611
VACAR	168,243	175,209	181,273	183,714	189,743	196,068	201,954	207,364	213,014	218,750	225,186
SERC	502,915	517,136	530,580	544,081	564,095	579,042	596,758	610,898	625,633	639,586	654,288
SOUTHEAST	107,049	105,989	106,846	108,803	111,262	114,115	116,850	119,218	122,514	125,297	127,776
WEST CENTRAL	72,014	75,090	78,014	80,447	83,271	86,103	89,114	92,400	95,732	98,873	101,716
NORTHERN	46,579	47,116	48,027	49,408	50,709	52,004	53,176	54,459	55,827	57,094	58,884
SPP	225,642	228,195	232,887	238,658	245,242	252,222	259,140	266,077	274,073	281,264	288,376
NWPP - U.S.	183,986	185,795	190,193	194,817	198,467	201,283	204,740	208,272	212,443	215,736	219,345
RMPA	33,088	35,996	38,225	39,765	41,301	42,747	44,016	45,109	46,350	47,679	49,355
AZ - NM	46,695	46,782	48,953	52,838	55,493	57,616	59,715	61,735	64,201	66,373	68,134
CA - SNV	205,168	208,035	213,182	216,843	220,893	225,281	231,133	235,938	240,919	246,119	251,316
WSCC - U.S.	468,937	476,608	490,553	504,263	516,154	526,927	539,604	551,054	563,913	575,907	588,150

Footnotes to Annual Electric Generation

a/ Adverse hydro conditions are routinely assumed for forecast years by most systems. Data for actual year can be greater than for forecast years if median hydro occurred.

b/ Median hydro.

c/ Deduct energy for pumping from total.

d/ Pumped storage output is greater than input due to pumped storage facilities being in combination with California reservoirs which are not disaggregated.

e/ Includes diesel.

f/ Gas is burned on an as available, interruptible basis. No firm contracts are anticipated for the future. Future generation from gas has been included in the oil categories.

g/ Includes Bethlehem Steel and Delaware City 1, 2, & 3 (refinery gas, petroleum coke, and oil).

h/ Includes BC & PS Trash Burner units.

i/ Delaware City 1, 2, 3 drop out (refinery gas, petroleum coke, and oil).

j/ Steam unit fueled by wood.

k/ Solid waste.

l/ Includes some wood and refuse. The annual amounts of electric energy from cogeneration included in this category from 1984 through 1994 are (in GWh) 911; 1,500; 3,000; 4,500; 6,500; 8,000; 8,500; 9,000; 9,200; 9,500; 9,700.

m/ The Northwest Power Pool (U.S.) is projecting a deficiency for the years 1989-1994 based on planned resources, assumed adverse hydro conditions, and the forecast energy requirements. To cover the projected deficiency, this category is also used to include the imports that would be necessary from systems outside the Northwest. From 1989 on, the annual amounts of GWh imports included in this category are 1,741; 5,277; 8,252; 4,620; 8,663; 8,926.

n/ Total generation less pumped storage load.

o/ Although Quebec exports electric energy to the U.S., it imports more energy from Churchill Falls in Labrador (Province of Newfoundland), sometimes becoming a net importer of electric energy. Because Churchill Falls is not a NERC member, this results in NPCC-Canada being a net importer in certain years, and reduces the amount to which NERC-Canada as a whole appears to be exporting to the U.S.

p/ Does not include a special program of secondary sales to industrial customers ending in 1988.

FOSSIL FUEL REQUIREMENTS

The **Fossil Fuel Requirements** data provide a projection of fossil fuels expected to be used for the 1985-1994 period for electric energy generation.

These data are reported directly to the Electric Council.

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
ESTIMATED FOSSIL FUEL REQUIREMENTS BY REGION - COAL
1,000 TONS

*** TOTAL COAL - STEAM ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	165,900	170,675	163,706	166,843	173,849	179,022	180,139	180,158	182,542	184,609	188,095
ERCOT	53,156	52,430	54,924	59,052	62,623	63,812	66,007	75,057	83,832	94,920	99,011
MAAC	39,371	36,605	36,561	36,163	36,071	37,158	36,138	37,359	37,988	38,969	39,879
MAIN	57,406	56,131	54,324	50,503	51,467	52,275	53,577	54,526	55,555	56,461	56,958
MAPP - U.S.	51,310	53,357	53,005	55,958	58,854	59,458	59,313	60,370	60,712	62,426	64,589
NPCC - U.S.	14,433	15,721	14,940	16,192	18,204	19,422	19,847	19,776	20,097	20,094	20,370
SERC	124,631	131,922	130,904	131,577	130,868	132,557	137,770	137,379	141,177	143,637	145,347
SPP	66,375	69,898	71,815	75,311	77,922	78,662	81,574	82,160	85,119	89,789	95,766
WSCC - U.S.	82,534	84,617	87,056	90,662	94,255	96,626	96,445	98,679	101,070	103,218	105,442
NERC - U.S.	655,116	671,356	667,235	682,261	704,113	718,992	730,810	745,464	768,092	794,123	815,457
MAPP - CANADA	8,887	7,600	7,147	7,410	7,881	8,267	8,419	8,618	9,139	9,340	9,670
NPCC - CANADA	15,668	12,263	10,657	8,517	7,317	7,478	6,713	7,523	6,702	6,533	7,253
WSCC - CANADA	17,054	18,292	19,255	20,010	21,155	22,298	23,384	24,259	24,772	25,418	26,345
NERC - CANADA	41,609	38,155	37,059	35,937	36,353	38,043	38,516	40,400	40,613	41,291	43,268

ESTIMATED FOSSIL FUEL REQUIREMENTS BY SUBREGION - COAL
1,000 TONS

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	9,107	9,390	8,594	9,745	11,006	10,920	11,085	11,126	11,447	11,444	11,720
NEW ENGLAND	5,326	6,331	6,346	6,447	7,198	8,502	8,762	8,650	8,650	8,650	8,650
NPCC - U.S.	14,433	15,721	14,940	16,192	18,204	19,422	19,847	19,776	20,097	20,094	20,370
NEW BRUNSWICK	657	653	652	652	652	653	653	653	652	653	653
ONTARIO	15,011	11,610	10,005	7,865	6,665	6,825	6,060	6,870	6,050	5,880	6,600
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	15,668	12,263	10,657	8,517	7,317	7,478	6,713	7,523	6,702	6,533	7,253
FLORIDA	11,500	16,935	17,373	18,618	19,755	20,811	20,902	21,198	21,223	22,137	23,251
SOUTHERN	48,348	51,392	52,075	49,026	48,760	49,243	50,670	51,750	52,337	49,299	48,013
TVA	28,258	27,266	25,238	28,610	27,093	25,269	25,979	24,664	25,703	26,286	26,865
VACAR	36,525	36,329	36,218	35,323	35,260	37,234	40,219	39,767	41,914	45,915	47,218
SERC	124,631	131,922	130,904	131,577	130,868	132,557	137,770	137,379	141,177	143,637	145,347
SOUTHEAST	14,757	16,402	17,370	17,860	18,533	17,882	18,644	18,279	19,165	22,098	24,534
WEST CENTRAL	23,388	27,973	28,761	31,288	32,043	33,168	34,900	35,420	36,470	37,970	39,942
NORTHERN	28,230	25,523	25,684	26,163	27,346	27,612	28,030	28,461	29,484	29,721	31,290
SPP	66,375	69,898	71,815	75,311	77,922	78,662	81,574	82,160	85,119	89,789	95,766
NWPP - U.S.	28,790	32,903	34,641	36,510	37,470	37,637	37,456	37,707	37,835	37,882	38,001
RMPA	17,170	16,260	16,999	17,528	18,488	19,262	20,012	20,647	21,240	22,009	22,799
AZ - NM	21,936	21,961	20,653	20,862	22,143	23,967	23,813	24,598	25,293	25,794	26,122
CA - SNV	14,638	13,493	14,763	15,762	16,154	15,760	15,164	15,727	16,702	17,533	18,520
WSCC - U.S.	82,534	84,617	87,056	90,662	94,255	96,626	96,445	98,679	101,070	103,218	105,442

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
ESTIMATED FOSSIL FUEL REQUIREMENTS BY REGION - COAL
1,000 TONS

*** WESTERN[a] LIGNITE - STEAM ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR[b]	—	—	—	—	—	—	—	—	—	—	—
ERCOT	34,377	34,282	38,114	41,677	45,755	45,502	48,647	57,372	65,326	73,490	78,418
MAAC	0	0	0	0	0	0	0	0	0	0	0
MAIN	0	0	0	0	0	0	0	0	0	0	0
MAPP - U.S.	21,160	21,450	20,874	22,695	23,375	23,154	21,836	22,009	21,927	23,082	24,658
NPCC - U.S.	0	0	0	0	0	0	0	0	0	0	0
SERC	0	0	0	0	0	0	0	0	0	0	0
SPP	39	2,560	4,175	5,096	5,066	5,291	5,226	5,187	5,066	5,099	5,479
WSCC - U.S.	0	0	0	0	0	0	0	0	0	0	0
NERC - U.S.	55,576	58,292	63,163	69,468	74,196	73,947	75,709	84,568	92,319	101,671	108,555
MAPP - CANADA	8,862	7,548	7,088	7,335	7,793	8,150	8,277	8,483	9,056	9,229	9,550
NPCC - CANADA	1,155	1,360	1,075	1,075	1,075	1,075	600	600	440	330	330
WSCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	10,017	8,908	8,163	8,410	8,868	9,225	8,877	9,083	9,496	9,559	9,880

ESTIMATED FOSSIL FUEL REQUIREMENTS BY SUBREGION - COAL
1,000 TONS

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	0	0	0	0	0	0	0	0	0	0	0
NPCC - U.S.	0	0	0	0	0	0	0	0	0	0	0
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	1,155	1,360	1,075	1,075	1,075	1,075	600	600	440	330	330
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	1,155	1,360	1,075	1,075	1,075	1,075	600	600	440	330	330
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	0	0	0	0	0	0	0	0	0	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	0	0	0	0	0
SERC	0	0	0	0	0	0	0	0	0	0	0
SOUTHEAST	0	0	795	1,308	1,500	1,500	1,439	1,500	1,500	1,308	1,500
WEST CENTRAL	39	2,560	3,380	3,788	3,566	3,791	3,787	3,687	3,566	3,791	3,979
NORTHERN	0	0	0	0	0	0	0	0	0	0	0
SPP	39	2,560	4,175	5,096	5,066	5,291	5,226	5,187	5,066	5,099	5,479
NWPP - U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ - NM	0	0	0	0	0	0	0	0	0	0	0
CA - SNV	0	0	0	0	0	0	0	0	0	0	0
WSCC - U.S.	0	0	0	0	0	0	0	0	0	0	0

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
ESTIMATED FOSSIL FUEL REQUIREMENTS BY REGION - COAL
1,000 TONS

*** WESTERN[a] COAL - STEAM ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR[b]	—	—	—	—	—	—	—	—	—	—	—
ERCOT	18,779	18,148	16,810	17,375	16,868	18,310	17,360	17,685	18,506	21,430	20,593
MAAC	0	0	0	0	0	0	0	0	0	0	0
MAIN	21,682	20,688	19,336	17,213	17,074	17,327	18,361	19,194	19,420	20,593	21,076
MAPP - U.S.	26,709	28,285	28,432	29,489	31,471	32,163	33,275	34,103	34,448	35,232	35,705
NPCC - U.S.	0	0	0	0	0	0	0	0	0	0	0
SERC	1,609	1,608	1,594	1,526	1,573	1,554	920	1,260	1,290	820	640
SPP	62,131	62,717	62,901	64,968	67,544	68,032	71,018	71,680	74,649	79,181	84,603
WSCC - U.S.	82,534	84,617	87,056	90,662	94,255	96,626	96,445	98,679	101,070	103,218	105,442
NERC - U.S.	213,444	216,063	216,129	221,233	228,785	234,012	237,379	242,601	249,383	260,474	268,059
MAPP - CANADA	25	52	59	75	88	117	142	135	83	111	120
NPCC - CANADA	2,370	2,670	2,290	1,790	1,905	1,910	2,080	2,080	2,080	0	0
WSCC - CANADA	17,054	18,292	19,255	20,010	21,155	22,298	23,384	24,259	24,772	25,418	26,345
NERC - CANADA	19,449	21,014	21,604	21,875	23,148	24,325	25,606	26,474	26,935	25,529	26,465

ESTIMATED FOSSIL FUEL REQUIREMENTS BY SUBREGION - COAL
1,000 TONS

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	0	0	0	0	0	0	0	0	0	0	0
NPCC - U.S.	0	0	0	0	0	0	0	0	0	0	0
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	2,370	2,670	2,290	1,790	1,905	1,910	2,080	2,080	2,080	0	0
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	2,370	2,670	2,290	1,790	1,905	1,910	2,080	2,080	2,080	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	1,609	1,608	1,594	1,526	1,573	1,554	920	1,260	1,290	820	640
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	0	0	0	0	0
SERC	1,609	1,608	1,594	1,526	1,573	1,554	920	1,260	1,290	820	640
SOUTHEAST	14,757	16,402	16,575	16,552	17,033	16,382	17,205	16,779	17,665	20,790	23,034
WEST CENTRAL	23,349	25,413	25,289	26,919	27,847	28,737	30,489	31,082	32,239	33,495	35,129
NORTHERN	24,025	20,902	21,037	21,497	22,664	22,913	23,324	23,819	24,745	24,896	26,440
SPP	62,131	62,717	62,901	64,968	67,544	68,032	71,018	71,680	74,649	79,181	84,603
NWPP - U.S.	28,790	32,903	34,641	36,510	37,470	37,637	37,456	37,707	37,835	37,882	38,001
RMPA	17,170	16,260	16,999	17,528	18,488	19,262	20,012	20,647	21,240	22,009	22,799
AZ - NM	21,936	21,961	20,653	20,862	22,143	23,967	23,813	24,598	25,293	25,794	26,122
CA - SNV	14,638	13,493	14,763	15,762	16,154	15,760	15,164	15,727	16,702	17,533	18,520
WSCC - U.S.	82,534	84,617	87,056	90,662	94,255	96,626	96,445	98,679	101,070	103,218	105,442

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
ESTIMATED FOSSIL FUEL REQUIREMENTS BY REGION - COAL
1,000 TONS

*** OTHER COAL - STEAM ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR[b]	—	—	—	—	—	—	—	—	—	—	—
ERCOT	0	0	0	0	0	0	0	0	0	0	0
MAAC	39,371	36,605	36,561	36,163	36,071	37,158	36,138	37,359	37,988	38,969	39,879
MAIN	35,724	35,443	34,988	33,290	34,393	34,948	35,216	35,332	36,135	35,868	35,882
MAPP - U.S.	3,441	3,622	3,699	3,774	4,008	4,141	4,202	4,258	4,337	4,112	4,226
NPCC - U.S.	14,433	15,721	14,940	16,192	18,204	19,422	19,847	19,776	20,097	20,094	20,370
SERC	123,022	130,314	129,310	130,051	129,295	131,003	136,850	136,119	139,887	142,817	144,707
SPP	4,205	4,621	4,739	5,247	5,312	5,339	5,330	5,293	5,404	5,509	5,684
WSCC - U.S.	0	0	0	0	0	0	0	0	0	0	0
NERC - U.S.	220,196	226,326	224,237	224,717	227,283	232,011	237,583	238,137	243,848	247,369	250,748
MAPP - CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	12,143	8,233	7,292	5,652	4,337	4,493	4,033	4,843	4,182	6,203	6,923
WSCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	12,143	8,233	7,292	5,652	4,337	4,493	4,033	4,843	4,182	6,203	6,923

ESTIMATED FOSSIL FUEL REQUIREMENTS BY SUBREGION - COAL
1,000 TONS

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	9,107	9,390	8,594	9,745	11,006	10,920	11,085	11,126	11,447	11,444	11,720
NEW ENGLAND	5,326	6,331	6,346	6,447	7,198	8,502	8,762	8,650	8,650	8,650	8,650
NPCC - U.S.	14,433	15,721	14,940	16,192	18,204	19,422	19,847	19,776	20,097	20,094	20,370
NEW BRUNSWICK	657	653	652	652	652	653	653	653	652	653	653
ONTARIO	11,486	7,580	6,640	5,000	3,685	3,840	3,380	4,190	3,530	5,550	6,270
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	12,143	8,233	7,292	5,652	4,337	4,493	4,033	4,843	4,182	6,203	6,923
FLORIDA	11,500	16,935	17,373	18,618	19,755	20,811	20,902	21,198	21,223	22,137	23,251
SOUTHERN	46,739	49,784	50,481	47,500	47,187	47,689	49,750	50,490	51,047	48,479	47,373
TVA	28,258	27,266	25,238	28,610	27,093	25,269	25,979	24,664	25,703	26,286	26,865
VACAR	36,525	36,329	36,218	35,323	35,260	37,234	40,219	39,767	41,914	45,915	47,218
SERC	123,022	130,314	129,310	130,051	129,295	131,003	136,850	136,119	139,887	142,817	144,707
SOUTHEAST	0	0	0	0	0	0	0	0	0	0	0
WEST CENTRAL	0	0	92	581	630	640	624	651	665	684	834
NORTHERN	4,205	4,621	4,647	4,666	4,682	4,699	4,706	4,642	4,739	4,825	4,850
SPP	4,205	4,621	4,739	5,247	5,312	5,339	5,330	5,293	5,404	5,509	5,684
NWPP - U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ - NM	0	0	0	0	0	0	0	0	0	0	0
CA - SNV	0	0	0	0	0	0	0	0	0	0	0
WSCC - U.S.	0	0	0	0	0	0	0	0	0	0	0

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
ESTIMATED FOSSIL FUEL REQUIREMENTS BY REGION - OIL
1,000 BARRELS

*** TOTAL OIL ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	3,050	3,920	3,920	3,988	4,128	4,224	4,304	4,354	4,409	4,489	4,586
ERCOT	865	1,265	1,298	1,292	1,608	1,618	2,823	2,994	3,576	3,957	4,477
MAAC	34,904	21,464	16,653	13,081	15,178	18,702	17,667	22,183	22,807	21,165	26,850
MAIN	5,420	6,211	5,447	2,707	2,830	2,948	3,686	4,861	5,088	7,009	8,651
MAPP - U.S.	285	326	548	610	570	701	787	928	1,330	1,170	1,150
NPCC - U.S.	104,850	113,466	95,354	80,538	75,461	74,870	84,179	76,388	82,858	90,043	99,234
SERC	35,411	24,524	26,195	27,217	28,262	31,242	35,393	38,669	44,754	47,262	50,450
SPP	1,256	2,093	3,335	3,617	4,497	4,599	5,245	5,113	5,492	8,562	8,028
WSCC - U.S.	4,486	3,256	2,313	1,811	3,227	4,865	9,361	9,186	10,782	10,053	12,653
NERC - U.S.	190,527	176,525	155,063	134,861	135,761	143,769	163,445	164,676	181,096	193,710	216,079
MAPP - CANADA	54	58	58	58	58	58	58	58	58	58	58
NPCC - CANADA	3,964	3,532	2,405	2,677	2,417	2,647	2,846	3,096	3,324	3,513	3,711
WSCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	4,018	3,590	2,463	2,735	2,475	2,705	2,904	3,154	3,382	3,571	3,769

ESTIMATED FOSSIL FUEL REQUIREMENTS BY SUBREGION - OIL
1,000 BARRELS

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	48,954	58,583	54,835	54,434	50,923	56,206	63,203	63,271	62,640	65,097	68,455
NEW ENGLAND	55,896	54,883	40,518	26,104	24,538	18,664	20,976	13,117	20,218	24,946	30,779
NPCC - U.S.	104,850	113,466	95,354	80,538	75,461	74,870	84,179	76,388	82,858	90,043	99,234
NEW BRUNSWICK	3,713	3,153	2,057	2,333	2,083	2,312	2,526	2,776	3,004	3,193	3,391
ONTARIO	251	379	348	344	334	335	320	320	320	320	320
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	3,964	3,532	2,405	2,677	2,417	2,647	2,846	3,096	3,324	3,513	3,711
FLORIDA	31,567	20,167	22,317	23,744	24,786	26,864	29,740	32,336	36,709	41,814	43,944
SOUTHERN	380	964	1,130	669	640	567	461	477	467	485	485
TVA	369	346	291	415	358	307	345	307	348	379	430
VACAR	3,095	3,047	2,457	2,389	2,478	3,504	4,847	5,549	7,230	4,584	5,591
SERC	35,411	24,524	26,195	27,217	28,262	31,242	35,393	38,669	44,754	47,262	50,450
SOUTHEAST	674	1,566	2,826	3,080	3,936	3,955	4,301	3,837	4,217	7,474	6,893
WEST CENTRAL	141	144	161	162	192	272	456	582	708	456	582
NORTHERN	441	283	348	375	369	372	488	694	567	632	553
SPP	1,256	2,093	3,335	3,617	4,497	4,599	5,245	5,113	5,492	8,562	8,028
NWPP - U.S.	1	0	0	0	499	499	665	665	668	665	665
RMPA	3	14	13	49	346	364	170	80	67	103	67
AZ - NM	382	584	66	56	50	64	71	74	713	990	990
CA - SNV	4,100	2,658	2,234	1,706	2,332	3,938	8,455	8,367	9,334	8,295	10,931
WSCC - U.S.	4,486	3,256	2,313	1,811	3,227	4,865	9,361	9,186	10,782	10,053	12,653

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
ESTIMATED FOSSIL FUEL REQUIREMENTS BY REGION - OIL
1,000 BARRELS

*** TOTAL DISTILLATE[C] OIL ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	2,292	3,162	3,162	3,162	3,232	3,304	3,329	3,347	3,402	3,482	3,579
ERCOT	599	830	867	864	1,180	1,190	2,395	2,566	3,148	3,529	4,049
MAAC	4,201	1,129	955	887	918	1,050	999	1,153	1,189	1,201	1,543
MAIN	670	984	969	891	853	854	948	963	1,070	1,180	1,493
MAPP - U.S.	274	281	459	527	493	615	678	809	1,138	1,021	988
NPCC - U.S.	1,769	5,266	3,598	5,042	4,420	4,496	4,264	4,820	2,140	2,736	3,524
SERC	2,116	2,427	2,364	2,155	2,063	2,312	2,517	2,793	3,053	2,954	3,203
SPP	887	796	937	901	903	950	1,246	1,659	1,773	4,942	4,539
WSCC - U.S.	285	683	614	598	1,304	1,325	1,124	1,032	1,162	1,198	1,162
NERC - U.S.	13,093	15,558	13,925	15,027	15,366	16,096	17,500	19,142	18,075	22,243	24,080
MAPP - CANADA	1	5	5	5	5	5	5	5	5	5	5
NPCC - CANADA	285	379	348	344	334	335	320	320	320	320	320
WSCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	286	384	353	349	339	340	325	325	325	325	325

ESTIMATED FOSSIL FUEL REQUIREMENTS BY SUBREGION - OIL
1,000 BARRELS

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	579	4,149	2,546	4,147	3,532	3,726	3,598	4,099	1,090	1,206	1,509
NEW ENGLAND	1,190	1,117	1,052	895	888	770	666	721	1,050	1,530	2,015
NPCC - U.S.	1,769	5,266	3,598	5,042	4,420	4,496	4,264	4,820	2,140	2,736	3,524
NEW BRUNSWICK	34	0	0	0	0	0	0	0	0	0	0
ONTARIO	251	379	348	344	334	335	320	320	320	320	320
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	285	379	348	344	334	335	320	320	320	320	320
FLORIDA	608	161	133	108	118	124	147	309	309	205	191
SOUTHERN	348	659	815	575	566	531	452	472	462	482	482
TVA	369	346	291	415	358	307	345	307	348	379	430
VACAR	791	1,261	1,125	1,057	1,021	1,350	1,573	1,705	1,934	1,888	2,100
SERC	2,116	2,427	2,364	2,155	2,063	2,312	2,517	2,793	3,053	2,954	3,203
SOUTHEAST	359	418	486	423	413	403	438	537	652	3,999	3,551
WEST CENTRAL	124	124	131	132	152	212	356	482	608	356	482
NORTHERN	404	254	320	346	338	335	452	640	513	587	506
SPP	887	796	937	901	903	950	1,246	1,659	1,773	4,942	4,539
NWPP - U.S.	0	0	0	0	461	461	461	461	461	461	461
RMPA	0	14	13	48	345	363	169	79	66	102	66
AZ - NM	4	158	44	40	40	40	47	45	190	190	190
CA - SNV	281	511	557	510	458	461	447	447	445	445	445
WSCC - U.S.	285	683	614	598	1,304	1,325	1,124	1,032	1,162	1,198	1,162

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
ESTIMATED FOSSIL FUEL REQUIREMENTS BY REGION - OIL
1,000 BARRELS

*** DISTILLATE[c] OIL - STEAM ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR[d]	1,811	2,407	2,407	2,407	2,477	2,549	2,574	2,630	2,662	2,662	2,662
ERCOT	593	830	867	864	887	897	937	956	1,037	1,130	1,286
MAAC	1,309	327	364	357	353	369	382	372	370	398	414
MAIN	606	702	702	719	727	737	735	731	743	733	749
MAPP - U.S.	233	186	250	236	245	244	247	248	271	247	259
NPCC - U.S.	167	243	178	113	106	80	91	54	84	104	129
SERC	1,374	1,546	1,483	1,455	1,414	1,520	1,576	1,632	1,691	1,730	1,861
SPP	549	690	773	708	726	711	739	725	737	3,974	3,154
WSCC - U.S.	27	12	9	24	249	262	86	37	28	42	26
NERC - U.S.	6,669	6,943	7,033	6,883	7,184	7,369	7,367	7,385	7,623	11,020	10,540
MAPP - CANADA	1	5	5	5	5	5	5	5	5	5	5
NPCC - CANADA	246	295	264	253	243	244	230	230	230	230	230
WSCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	247	300	269	258	248	249	235	235	235	235	235

ESTIMATED FOSSIL FUEL REQUIREMENTS BY SUBREGION - OIL
1,000 BARRELS

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	0	0	0	0	0	6	0	0	0	0	0
NEW ENGLAND	167	243	178	113	106	80	91	54	84	104	129
NPCC - U.S.	167	243	178	113	106	80	91	54	84	104	129
NEW BRUNSWICK	28	0	0	0	0	0	0	0	0	0	0
ONTARIO	218	295	264	253	243	244	230	230	230	230	230
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	246	295	264	253	243	244	230	230	230	230	230
FLORIDA	183	130	108	74	86	77	74	83	86	72	67
SOUTHERN	282	394	423	437	438	472	438	459	449	449	449
TVA	343	294	274	309	294	273	282	268	279	285	291
VACAR	566	728	678	635	596	698	782	822	877	924	1,054
SERC	1,374	1,546	1,483	1,455	1,414	1,520	1,576	1,632	1,691	1,730	1,861
SOUTHEAST	285	418	486	423	409	399	419	409	414	3,645	2,821
WEST CENTRAL	85	86	93	94	114	114	114	114	114	114	114
NORTHERN	179	186	194	191	203	198	206	202	209	215	219
SPP	549	690	773	708	726	711	739	725	737	3,974	3,154
NWPP - U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	0	12	9	24	249	262	86	37	28	42	26
AZ - NM	0	0	0	0	0	0	0	0	0	0	0
CA - SNV	27	0	0	0	0	0	0	0	0	0	0
WSCC - U.S.	27	12	9	24	249	262	86	37	28	42	26

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
ESTIMATED FOSSIL FUEL REQUIREMENTS BY REGION - OIL
1,000 BARRELS

*** DISTILLATE OIL - COMBUSTION TURBINE ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	433	707	707	707	707	707	707	669	692	741	806
ERCOT	3	0	0	0	293	293	1,458	1,610	2,111	2,399	2,763
MAAC	2,729	672	482	428	448	550	508	648	689	678	986
MAIN	64	282	267	172	126	117	213	232	327	447	744
MAPP - U.S.	38	93	206	283	236	371	430	559	864	770	724
NPCC - U.S.	923	4,379	2,776	4,377	3,762	3,956	3,713	4,214	1,320	1,896	2,659
SERC	739	878	878	697	646	789	938	1,158	1,359	1,221	1,339
SPP	338	106	164	193	177	239	507	934	1,036	968	1,385
WSCC - U.S.	220	552	531	555	1,036	1,044	1,018	977	1,123	1,145	1,125
NERC - U.S.	5,487	7,669	6,011	7,412	7,431	8,066	9,492	11,001	9,521	10,265	12,531
MAPP - CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	39	84	84	91	91	91	90	90	90	90	90
WSCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	39	84	84	91	91	91	90	90	90	90	90

ESTIMATED FOSSIL FUEL REQUIREMENTS BY SUBREGION - OIL
1,000 BARRELS

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	579	4,149	2,546	4,147	3,532	3,726	3,598	4,099	1,090	1,206	1,509
NEW ENGLAND	344	230	230	230	230	230	115	115	230	690	1,150
NPCC - U.S.	923	4,379	2,776	4,377	3,762	3,956	3,713	4,214	1,320	1,896	2,659
NEW BRUNSWICK	6	0	0	0	0	0	0	0	0	0	0
ONTARIO	33	84	84	91	91	91	90	90	90	90	90
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	39	84	84	91	91	91	90	90	90	90	90
FLORIDA	422	28	22	31	29	44	70	223	220	130	121
SOUTHERN	66	265	392	138	128	59	14	13	13	33	33
TVA	26	52	17	106	64	34	63	39	69	94	139
VACAR	225	533	447	422	425	652	791	883	1,057	964	1,046
SERC	739	878	878	697	646	789	938	1,158	1,359	1,221	1,339
SOUTHEAST	74	0	0	0	4	4	19	128	238	354	730
WEST CENTRAL	39	38	38	38	38	98	242	368	494	242	368
NORTHERN	225	68	126	155	135	137	246	438	304	372	287
SPP	338	106	164	193	177	239	507	934	1,036	968	1,385
NWPP - U.S.	0	0	0	0	461	461	461	461	461	461	461
RMPA	0	2	4	24	96	101	83	42	38	60	40
AZ - NM	4	65	42	40	40	40	40	40	190	190	190
CA - SNV	216	485	485	491	439	442	434	434	434	434	434
WSCC - U.S.	220	552	531	555	1,036	1,044	1,018	977	1,123	1,145	1,125

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
ESTIMATED FOSSIL FUEL REQUIREMENTS BY REGION - OIL
1,000 BARRELS

*** DISTILLATE OIL - COMBINED CYCLE ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	48	48	48	48	48	48	48	48	48	79	111
ERCOT	3	0	0	0	0	0	0	0	0	0	0
MAAC	163	130	109	102	117	131	109	133	130	125	143
MAIN	0	0	0	0	0	0	0	0	0	0	0
MAPP - U.S.	3	2	3	8	12	0	1	2	3	4	5
NPCC - U.S.	679	644	644	552	552	460	460	552	736	736	736
SERC	3	3	3	3	3	3	3	3	3	3	3
SPP	0	0	0	0	0	0	0	0	0	0	0
WSCC - U.S.	38	119	74	19	19	19	20	18	11	11	11
NERC - U.S.	937	946	881	732	751	661	641	756	931	958	1,009
MAPP - CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	0	0	0	0	0	0	0	0	0	0	0

ESTIMATED FOSSIL FUEL REQUIREMENTS BY SUBREGION - OIL
1,000 BARRELS

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	679	644	644	552	552	460	460	552	736	736	736
NPCC - U.S.	679	644	644	552	552	460	460	552	736	736	736
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	3	3	3	3	3	3	3	3	3	3	3
SOUTHERN	0	0	0	0	0	0	0	0	0	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	0	0	0	0	0
GERC	3	3	3	3	3	3	3	3	3	3	3
SOUTHEAST	0	0	0	0	0	0	0	0	0	0	0
WEST CENTRAL	0	0	0	0	0	0	0	0	0	0	0
NORTHERN	0	0	0	0	0	0	0	0	0	0	0
SPP	0	0	0	0	0	0	0	0	0	0	0
NWPP - U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ - NM	0	93	2	0	0	0	7	5	0	0	0
CA - SNV	38	26	72	19	19	19	13	13	11	11	11
WSCC - U.S.	38	119	74	19	19	19	20	18	11	11	11

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
ESTIMATED FOSSIL FUEL REQUIREMENTS BY REGION - OIL
1,000 BARRELS

***TOTAL RESIDUAL/ OIL ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	758	758	758	826	896	920	975	1,007	1,007	1,007	1,007
ERCOT	266	435	431	428	428	428	428	428	428	428	428
MAAC	30,703	20,335	15,698	12,194	14,260	17,652	16,668	21,030	21,618	19,964	25,307
MAIN	4,750	5,227	4,478	1,816	1,977	2,094	2,738	3,898	4,018	5,829	7,158
MAPP - U.S.	11	45	89	83	77	86	109	119	192	149	162
NPCC - U.S.	103,081	108,200	91,756	75,496	71,041	70,374	79,915	71,568	80,718	87,307	95,710
SERC	33,283	22,096	23,829	25,060	26,197	28,928	32,874	35,874	41,699	44,306	47,245
SPP	369	1,297	2,398	2,716	3,594	3,649	3,999	3,454	3,719	3,620	3,489
WSCC - U.S.	4,201	2,573	1,699	1,213	1,923	3,540	8,237	8,154	9,620	8,855	11,491
NERC - U.S.	177,422	160,966	141,136	119,832	120,393	127,671	145,943	145,532	163,019	171,465	191,997
MAPP - CANADA	53	53	53	53	53	53	53	53	53	53	53
NPCC - CANADA	3,679	3,153	2,057	2,333	2,083	2,312	2,526	2,776	3,004	3,193	3,391
WSCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	3,732	3,206	2,110	2,386	2,136	2,365	2,579	2,829	3,057	3,246	3,444

ESTIMATED FOSSIL FUEL REQUIREMENTS BY SUBREGION - OIL
1,000 BARRELS

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	48,375	54,434	52,289	50,287	47,391	52,480	59,605	59,172	61,550	63,891	66,946
NEW ENGLAND	54,706	53,766	39,467	25,209	23,650	17,894	20,310	12,396	19,168	23,416	28,764
NPCC - U.S.	103,081	108,200	91,756	75,496	71,041	70,374	79,915	71,568	80,718	87,307	95,710
NEW BRUNSWICK	3,679	3,153	2,057	2,333	2,083	2,312	2,526	2,776	3,004	3,193	3,391
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	3,679	3,153	2,057	2,333	2,083	2,312	2,526	2,776	3,004	3,193	3,391
FLORIDA	30,959	20,006	22,184	23,636	24,668	26,740	29,593	32,027	36,400	41,609	43,753
SOUTHERN	20	304	313	92	72	34	7	3	3	1	1
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	2,304	1,786	1,332	1,332	1,457	2,154	3,274	3,844	5,296	2,696	3,491
SERC	33,283	22,096	23,829	25,060	26,197	28,928	32,874	35,874	41,699	44,306	47,245
SOUTHEAST	315	1,248	2,340	2,657	3,523	3,552	3,863	3,300	3,565	3,475	3,342
WEST CENTRAL	17	20	30	30	40	60	100	100	100	100	100
NORTHERN	37	29	28	29	31	37	36	54	54	45	47
SPP	369	1,297	2,398	2,716	3,594	3,649	3,999	3,454	3,719	3,620	3,489
NWPP - U.S.	1	0	0	0	38	38	204	204	207	204	204
RMPA	3	0	0	1	1	1	1	1	1	1	1
AZ - NM	378	426	22	16	10	24	24	29	523	800	800
CA - SNV	3,819	2,147	1,677	1,196	1,874	3,477	8,008	7,920	8,889	7,850	10,486
WSCC - U.S.	4,201	2,573	1,699	1,213	1,923	3,540	8,237	8,154	9,620	8,855	11,491

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
ESTIMATED FOSSIL FUEL REQUIREMENTS BY REGION - OIL
1,000 BARRELS

*** RESIDUAL OIL - STEAM ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	758	758	758	826	896	920	975	1,007	1,007	1,007	1,007
ERCOT	266	435	431	428	428	428	428	428	428	428	428
MAAC	30,703	20,335	15,698	12,194	14,260	17,652	16,668	21,030	21,618	19,964	25,307
MAIN	4,750	5,226	4,477	1,815	1,976	2,093	2,737	3,897	4,017	5,828	7,157
MAPP - U.S.	9	43	87	81	77	86	109	119	192	149	162
NPCC - U.S.	102,685	107,486	91,042	74,884	70,429	69,864	79,405	70,956	79,902	86,491	94,894
SERC	32,969	21,835	23,566	24,796	25,922	28,636	32,547	35,450	41,289	43,886	46,807
SPP	369	1,297	2,398	2,716	3,594	3,649	3,999	3,454	3,719	3,620	3,489
WSCC - U.S.	4,201	2,555	1,681	1,213	1,914	3,525	8,189	8,154	9,620	8,813	11,452
NERC - U.S.	176,710	159,970	140,138	118,953	119,496	126,853	145,057	144,495	161,792	170,186	190,703
MAPP - CANADA	53	53	53	53	53	53	53	53	53	53	53
NPCC - CANADA	3,679	3,153	2,057	2,333	2,083	2,312	2,526	2,776	3,004	3,193	3,391
WSCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	3,732	3,206	2,110	2,386	2,136	2,365	2,579	2,829	3,057	3,246	3,444

ESTIMATED FOSSIL FUEL REQUIREMENTS BY SUBREGION - OIL
1,000 BARRELS

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	48,375	54,434	52,289	50,287	47,391	52,480	59,605	59,172	61,550	63,891	66,946
NEW ENGLAND	54,310	53,052	38,753	24,597	23,038	17,384	19,800	11,784	18,352	22,600	27,948
NPCC - U.S.	102,685	107,486	91,042	74,884	70,429	69,864	79,405	70,956	79,902	86,491	94,894
NEW BRUNSWICK	3,679	3,153	2,057	2,333	2,083	2,312	2,526	2,776	3,004	3,193	3,391
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	3,679	3,153	2,057	2,333	2,083	2,312	2,526	2,776	3,004	3,193	3,391
FLORIDA	30,646	19,745	21,921	23,372	24,393	26,448	29,266	31,603	35,990	41,189	43,315
SOUTHERN	19	304	313	92	72	34	7	3	3	1	1
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	2,304	1,786	1,332	1,332	1,457	2,154	3,274	3,844	5,296	2,696	3,491
SERC	32,969	21,835	23,566	24,796	25,922	28,636	32,547	35,450	41,289	43,886	46,807
SOUTHEAST	315	1,248	2,340	2,657	3,523	3,552	3,863	3,300	3,565	3,475	3,342
WEST CENTRAL	17	20	30	30	40	60	100	100	100	100	100
NORTHERN	37	29	28	29	31	37	36	54	54	45	47
SPP	369	1,297	2,398	2,716	3,594	3,649	3,999	3,454	3,719	3,620	3,489
NWPP - U.S.	1	0	0	0	38	38	204	204	207	204	204
RMPA	3	0	0	1	1	1	1	1	1	1	1
AZ - NM	378	426	22	16	10	24	24	29	523	800	800
CA - SNV	3,819	2,129	1,659	1,196	1,865	3,462	7,960	7,920	8,889	7,808	10,447
WSCC - U.S.	4,201	2,555	1,681	1,213	1,914	3,525	8,189	8,154	9,620	8,813	11,452

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
ESTIMATED FOSSIL FUEL REQUIREMENTS BY REGION - OIL
1,000 BARRELS

*** RESIDUAL[f] OIL - COMBUSTION[e] TURBINE ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	0	0	0	0	0	0	0	0	0	0	0
MAAC	0	0	0	0	0	0	0	0	0	0	0
MAIN	0	1	1	1	1	1	1	1	1	1	1
MAPP - U.S.	2	2	2	2	0	0	0	0	0	0	0
NPCC - U.S.	0	0	0	0	0	0	0	0	0	0	0
SERC	238	261	263	264	275	292	327	424	410	415	433
SPP	0	0	0	0	0	0	0	0	0	0	0
WSCC - U.S.	0	18	18	0	9	15	48	0	0	42	39
NERC - U.S.	240	282	284	267	285	308	376	425	411	458	473
MAPP - CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	0	0	0	0	0	0	0	0	0	0	0

ESTIMATED FOSSIL FUEL REQUIREMENTS BY SUBREGION - OIL
1,000 BARRELS

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	0	0	0	0	0	0	0	0	0	0	0
NPCC - U.S.	0	0	0	0	0	0	0	0	0	0	0
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	237	261	263	264	275	292	327	424	410	415	433
SOUTHERN	1	0	0	0	0	0	0	0	0	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	0	0	0	0	0
SERC	238	261	263	264	275	292	327	424	410	415	433
SOUTHEAST	0	0	0	0	0	0	0	0	0	0	0
WEST CENTRAL	0	0	0	0	0	0	0	0	0	0	0
NORTHERN	0	0	0	0	0	0	0	0	0	0	0
SPP	0	0	0	0	0	0	0	0	0	0	0
NWPP - U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ - NM	0	0	0	0	0	0	0	0	0	0	0
CA - SNV	0	18	18	0	9	15	48	0	0	42	39
WSCC - U.S.	0	18	18	0	9	15	48	0	0	42	39

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
ESTIMATED FOSSIL FUEL REQUIREMENTS BY REGION - OIL
1,000 BARRELS

*** RESIDUAL[f] OIL - COMBINED CYCLE ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	0	0	0	0	0	0	0	0	0	0	0
MAAC	0	0	0	0	0	0	0	0	0	0	0
MAIN	0	0	0	0	0	0	0	0	0	0	0
MAPP - U.S.	0	0	0	0	0	0	0	0	0	0	0
NPCC - U.S.	396	714	714	612	612	510	510	612	816	816	816
SERC	76	0	0	0	0	0	0	0	0	5	5
SPP	0	0	0	0	0	0	0	0	0	0	0
WSCC - U.S.	0	0	0	0	0	0	0	0	0	0	0
NERC - U.S.	472	714	714	612	612	510	510	612	816	821	821
MAPP - CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	0	0	0	0	0	0	0	0	0	0	0

ESTIMATED FOSSIL FUEL REQUIREMENTS BY SUBREGION - OIL
1,000 BARRELS

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	396	714	714	612	612	510	510	612	816	816	816
NPCC - U.S.	396	714	714	612	612	510	510	612	816	816	816
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	76	0	0	0	0	0	0	0	0	5	5
SOUTHERN	0	0	0	0	0	0	0	0	0	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	0	0	0	0	0
SERC	76	0	0	0	0	0	0	0	0	5	5
SOUTHEAST	0	0	0	0	0	0	0	0	0	0	0
WEST CENTRAL	0	0	0	0	0	0	0	0	0	0	0
NORTHERN	0	0	0	0	0	0	0	0	0	0	0
SPP	0	0	0	0	0	0	0	0	0	0	0
NWPP - U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ - NM	0	0	0	0	0	0	0	0	0	0	0
CA - SNV	0	0	0	0	0	0	0	0	0	0	0
WSCC - U.S.	0	0	0	0	0	0	0	0	0	0	0

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
ESTIMATED FOSSIL FUEL REQUIREMENTS BY REGION - OIL
1,000 BARRELS

*** TOTAL CRUDE OIL - STEAM ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	0	0	0	0	0	0	0	0	0	0	0
MAAC	0	0	0	0	0	0	0	0	0	0	0
MAIN	0	0	0	0	0	0	0	0	0	0	0
MAPP - U.S.	0	0	0	0	0	0	0	0	0	0	0
NPCC - U.S.	0	0	0	0	0	0	0	0	0	0	0
SERC	12	1	2	2	2	2	2	2	2	2	2
SPP	0	0	0	0	0	0	0	0	0	0	0
WSCC - U.S.	0	0	0	0	0	0	0	0	0	0	0
NERC - U.S.	12	1	2	2	2	2	2	2	2	2	2
MAPP - CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	0	0	0	0	0	0	0	0	0	0	0

ESTIMATED FOSSIL FUEL REQUIREMENTS BY SUBREGION - OIL
1,000 BARRELS

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	0	0	0	0	0	0	0	0	0	0	0
NPCC - U.S.	0	0	0	0	0	0	0	0	0	0	0
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	12	1	2	2	2	2	2	2	2	2	2
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	0	0	0	0	0
SERC	12	1	2	2	2	2	2	2	2	2	2
SOUTHEAST	0	0	0	0	0	0	0	0	0	0	0
WEST CENTRAL	0	0	0	0	0	0	0	0	0	0	0
NORTHERN	0	0	0	0	0	0	0	0	0	0	0
SPP	0	0	0	0	0	0	0	0	0	0	0
NWPP - U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ - NM	0	0	0	0	0	0	0	0	0	0	0
CA - SNV	0	0	0	0	0	0	0	0	0	0	0
WSCC - U.S.	0	0	0	0	0	0	0	0	0	0	0

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
ESTIMATED FOSSIL FUEL REQUIREMENTS BY REGION - NATURAL GAS
1,000 MCF

*** TOTAL NATURAL GAS ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	1,930	2,650	2,650	2,650	1,850	1,850	1,900	1,950	2,000	2,050	2,025
ERCOT	1,006,480	1,034,722	982,855	884,819	881,615	856,877	901,635	879,374	860,813	858,197	825,924
MAAC	106,218	69,945	68,798	63,173	67,312	67,752	64,944	70,164	71,887	70,440	81,785
MAIN	7,053	7,333	4,424	2,957	3,292	3,513	3,734	5,541	6,951	9,181	14,147
MAPP - U.S.	468,689	4,177	3,574	3,982	4,072	4,228	4,436	4,596	4,667	4,674	5,009
NPCC - U.S.	207,487	154,354	151,453	155,505	108,110	54,055	10,304	9,913	9,695	9,845	10,048
SERC	180,226	86,200	81,404	72,243	71,987	76,305	91,543	125,544	133,148	126,540	127,400
SPP	907,545	707,037	695,643	689,282	710,416	711,905	756,348	755,598	794,791	805,700	786,188
WSCC - U.S.	633,921	803,083	670,930	581,643	601,712	611,396	595,182	578,723	594,156	585,464	589,888
NERC - U.S.	3,519,549	2,869,501	2,661,731	2,456,254	2,450,366	2,387,881	2,430,026	2,431,403	2,478,108	2,472,091	2,442,414
MAPP - CANADA	5,312	8,888	7,878	8,251	8,813	9,562	10,347	10,796	9,225	9,973	10,310
NPCC - CANADA	113	295	164	164	164	164	164	164	164	164	164
WSCC - CANADA	14,214	19,616	17,901	15,863	12,962	11,526	16,833	22,010	32,023	41,986	49,150
NERC - CANADA	19,639	28,799	25,943	24,278	21,939	21,252	27,344	32,970	41,412	52,123	59,624

ESTIMATED FOSSIL FUEL REQUIREMENTS BY SUBREGION - NATURAL GAS
1,000 MCF

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	169,646	154,354	151,453	155,505	108,110	54,055	10,304	9,913	9,695	9,845	10,048
NEW ENGLAND[g]	37,841	0	0	0	0	0	0	0	0	0	0
NPCC - U.S.	207,487	154,354	151,453	155,505	108,110	54,055	10,304	9,913	9,695	9,845	10,048
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	113	295	164	164	164	164	164	164	164	164	164
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	113	295	164	164	164	164	164	164	164	164	164
FLORIDA	171,697	70,776	65,961	62,370	61,765	64,615	70,585	77,095	89,576	77,388	80,763
SOUTHERN	4,943	11,701	11,702	7,272	6,791	6,270	4,352	4,088	4,056	4,156	4,151
TVA[h]	0	—	—	—	—	—	—	—	—	—	—
VACAR	3,586	3,723	3,741	2,601	3,431	5,420	16,606	44,361	39,516	44,996	42,486
SERC	180,226	86,200	81,404	72,243	71,987	76,305	91,543	125,544	133,148	126,540	127,400
SOUTHEAST	533,776	403,061	378,017	374,532	389,268	382,122	410,715	400,237	426,569	426,209	403,401
WEST CENTRAL	345,969	284,084	294,725	293,659	294,886	301,183	313,948	319,996	333,201	336,674	346,289
NORTHERN	27,800	19,892	22,901	21,091	26,262	28,600	31,685	35,365	35,021	42,817	36,498
SPP	907,545	707,037	695,643	689,282	710,416	711,905	756,348	755,598	794,791	805,700	786,188
NWPP - U.S.	3,169	10,968	9,552	15,300	33,952	33,777	34,833	34,941	35,008	35,145	35,145
RMPA	3,793	3,718	3,806	3,888	5,150	5,520	4,585	3,589	4,306	3,924	3,422
AZ - NM	67,069	66,412	53,372	41,999	39,462	43,559	39,015	38,499	39,371	44,629	47,048
CA - SNV	559,890	721,985	604,200	520,456	523,148	528,540	516,749	501,694	515,471	501,766	504,273
WSCC - U.S.	633,921	803,083	670,930	581,643	601,712	611,396	595,182	578,723	594,156	585,464	589,888

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
ESTIMATED FOSSIL FUEL REQUIREMENTS BY REGION - NATURAL GAS
1,000 MCF

*** TOTAL FIRM NATURAL GAS ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	707,040	713,070	678,613	587,893	593,714	562,911	575,621	570,899	578,456	583,171	564,898
MAAC	0	0	0	0	0	0	0	0	0	0	0
MAIN	3,985	5,229	3,107	1,377	1,535	1,364	1,824	2,632	3,233	4,515	6,528
MAPP - U.S.	445	866	489	488	573	574	430	430	430	430	430
NPCC - U.S.	52,604	47,862	46,957	48,215	33,519	16,760	3,195	3,074	3,006	3,053	3,116
SERC	4,006	5,523	5,675	4,962	4,753	5,325	4,585	3,467	4,196	4,161	3,797
SPP	565,437	442,546	406,786	411,386	419,806	431,126	453,759	464,203	496,793	518,680	501,881
WSCC - U.S.	631,549	781,435	649,482	557,669	560,424	565,932	544,272	527,211	542,707	537,275	543,762
NERC - U.S.	1,965,066	1,996,531	1,791,109	1,611,990	1,614,324	1,583,992	1,583,686	1,571,916	1,628,821	1,651,285	1,624,412
MAPP - CANADA	5,312	2,888	1,878	2,251	2,813	3,562	4,347	4,796	3,225	3,973	4,310
NPCC - CANADA	113	295	164	164	164	164	164	164	164	164	164
WSCC - CANADA	14,144	19,616	17,901	15,863	12,962	11,526	16,833	22,010	27,206	28,790	29,456
NERC - CANADA	19,569	22,799	19,943	18,278	15,939	15,252	21,344	26,970	30,595	32,927	33,930

ESTIMATED FOSSIL FUEL REQUIREMENTS BY SUBREGION - NATURAL GAS
1,000 MCF

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	52,604	47,862	46,957	48,215	33,519	16,760	3,195	3,074	3,006	3,053	3,116
NEW ENGLAND	0	0	0	0	0	0	0	0	0	0	0
NPCC - U.S.	52,604	47,862	46,957	48,215	33,519	16,760	3,195	3,074	3,006	3,053	3,116
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	113	295	164	164	164	164	164	164	164	164	164
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	113	295	164	164	164	164	164	164	164	164	164
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	3,909	5,132	5,053	4,348	4,301	4,336	3,254	3,174	3,169	3,143	3,142
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	97	391	622	614	452	989	1,331	293	1,027	1,018	655
SERC	4,006	5,523	5,675	4,962	4,753	5,325	4,585	3,467	4,196	4,161	3,797
SOUTHEAST	247,403	179,167	166,070	173,840	187,702	194,790	207,475	213,720	237,967	264,543	242,364
WEST CENTRAL	301,415	255,316	232,653	229,483	224,041	228,273	238,211	241,980	249,873	244,714	249,624
NORTHERN	16,619	8,063	8,063	8,063	8,063	8,063	8,073	8,503	8,953	9,423	9,893
SPP	565,437	442,546	406,786	411,386	419,806	431,126	453,759	464,203	496,793	518,680	501,881
NWPP - U.S.	2,983	8,359	8,597	8,327	8,629	8,608	9,558	9,655	9,580	9,839	9,839
RMPA	1,607	1,687	1,775	1,908	3,170	3,540	3,100	2,599	3,316	2,934	2,432
AZ - NM	67,069	65,534	52,625	40,663	38,827	42,624	38,625	38,098	39,015	44,006	46,168
CA - SNV	559,890	705,855	586,485	506,771	509,798	511,160	492,989	476,859	490,796	480,496	485,323
WSCC - U.S.	631,549	781,435	649,482	557,669	560,424	565,932	544,272	527,211	542,707	537,275	543,762

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
ESTIMATED FOSSIL FUEL REQUIREMENTS BY REGION - NATURAL GAS
1,000 MCF

*** FIRM NATURAL GAS - STEAM ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	661,736	679,435	648,207	560,781	561,928	533,386	547,977	542,973	552,047	554,226	537,641
MAAC	0	0	0	0	0	0	0	0	0	0	0
MAIN	3,224	2,452	761	284	279	279	281	258	261	265	266
MAPP - U.S.	445	812	430	430	430	430	430	430	430	430	430
NPCC - U.S.	51,153	46,542	45,663	46,885	32,595	16,298	3,107	2,989	2,923	2,969	3,030
SERC	756	1,567	1,488	906	847	771	254	174	169	143	142
SPP	537,680	421,257	387,334	388,860	396,419	405,768	426,654	436,275	465,148	486,234	467,925
WSCC - U.S.	586,065	709,058	582,451	494,328	498,623	501,230	482,178	464,818	481,841	472,982	479,974
NERC - U.S.	1,841,059	1,861,123	1,666,334	1,492,474	1,491,121	1,458,162	1,460,881	1,447,917	1,502,819	1,517,249	1,489,408
MAPP - CANADA	4,713	2,364	1,541	1,840	1,953	1,953	1,990	1,953	1,504	1,691	1,766
NPCC - CANADA	113	295	164	164	164	164	164	164	164	164	164
WSCC - CANADA	6,103	9,853	7,690	10,962	8,148	6,741	7,350	12,222	16,737	18,176	18,711
NERC - CANADA	10,929	12,512	9,395	12,966	10,265	8,858	9,504	14,339	18,405	20,031	20,641

ESTIMATED FOSSIL FUEL REQUIREMENTS BY SUBREGION - NATURAL GAS
1,000 MCF

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	51,153	46,542	45,663	46,885	32,595	16,298	3,107	2,989	2,923	2,969	3,030
NEW ENGLAND	0	0	0	0	0	0	0	0	0	0	0
NPCC - U.S.	51,153	46,542	45,663	46,885	32,595	16,298	3,107	2,989	2,923	2,969	3,030
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	113	295	164	164	164	164	164	164	164	164	164
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	113	295	164	164	164	164	164	164	164	164	164
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	756	1,567	1,488	906	847	771	254	174	169	143	142
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	0	0	0	0	0
SERC	756	1,567	1,488	906	847	771	254	174	169	143	142
SOUTHEAST	247,217	178,946	165,384	173,234	187,197	194,020	206,732	212,691	236,681	263,017	240,730
WEST CENTRAL	273,884	234,268	213,907	207,583	201,179	203,705	211,879	215,541	220,424	215,174	219,152
NORTHERN	16,579	8,043	8,043	8,043	8,043	8,043	8,043	8,043	8,043	8,043	8,043
SPP	537,680	421,257	387,334	388,860	396,419	405,768	426,654	436,275	465,148	486,234	467,925
NWPP - U.S.	2,983	8,359	8,597	8,327	8,629	8,608	9,558	9,655	9,580	9,839	9,839
RMPA	1,493	1,370	1,521	1,506	1,600	1,895	1,731	1,921	2,701	1,954	1,766
AZ - NM	34,192	39,424	32,477	24,757	25,636	26,827	24,401	22,748	25,205	27,190	29,439
CA - SNV	547,397	659,905	539,856	459,738	462,758	463,900	446,488	430,494	444,355	433,999	438,930
WSCC - U.S.	586,065	709,058	582,451	494,328	498,623	501,230	482,178	464,818	481,841	472,982	479,974

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
ESTIMATED FOSSIL FUEL REQUIREMENTS BY REGION - NATURAL GAS
1,000 MCF

*** FIRM NATURAL GAS - COMBUSTION TURBINE ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	41,160	1,044	388	418	1,014	631	469	404	554	1,193	1,156
MAAC	0	0	0	0	0	0	0	0	0	0	0
MAIN	761	2,777	2,346	1,093	1,256	1,085	1,543	2,374	2,972	4,250	6,262
MAPP - U.S.	0	54	59	58	143	144	0	0	0	0	0
NPCC - U.S.	1,451	1,320	1,294	1,330	924	462	88	85	83	84	86
SERC	3,250	3,956	4,187	4,056	3,906	4,554	4,331	3,293	4,027	4,018	3,655
SPP	621	292	743	659	561	1,135	1,852	3,211	4,723	4,651	5,903
WSCC - U.S.	13,554	6,880	7,536	6,960	7,972	8,621	8,002	7,045	7,761	8,848	8,637
NERC - U.S.	60,797	16,323	16,553	14,574	15,776	16,632	16,285	16,412	20,120	23,044	25,699
MAPP - CANADA	599	524	337	411	860	1,609	2,357	2,843	1,721	2,282	2,544
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC - CANADA	8,041	9,763	10,211	4,901	4,814	4,785	9,483	9,788	10,469	10,614	10,745
NERC - CANADA	8,640	10,287	10,548	5,312	5,674	6,394	11,840	12,631	12,190	12,896	13,289

ESTIMATED FOSSIL FUEL REQUIREMENTS BY SUBREGION - NATURAL GAS
1,000 MCF

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	1,451	1,320	1,294	1,330	924	462	88	85	83	84	86
NEW ENGLAND	0	0	0	0	0	0	0	0	0	0	0
NPCC - U.S.	1,451	1,320	1,294	1,330	924	462	88	85	83	84	86
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	3,153	3,565	3,565	3,442	3,454	3,565	3,000	3,000	3,000	3,000	3,000
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	97	391	622	614	452	989	1,331	293	1,027	1,018	655
SERC	3,250	3,956	4,187	4,056	3,906	4,554	4,331	3,293	4,027	4,018	3,655
SOUTHEAST	186	221	686	606	505	770	743	1,029	1,286	1,526	1,634
WEST CENTRAL	395	51	37	33	36	345	1,079	1,722	2,527	1,745	2,419
NORTHERN	40	20	20	20	20	20	30	460	910	1,380	1,850
SPP	621	292	743	659	561	1,135	1,852	3,211	4,723	4,651	5,903
NWPP - U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	114	317	254	402	1,570	1,645	1,369	678	615	980	666
AZ - NM	12,063	2,361	2,771	1,605	1,472	1,726	1,462	1,362	1,645	2,201	2,428
CA - SNV	1,377	4,202	4,511	4,953	4,930	5,250	5,171	5,005	5,501	5,667	5,543
WSCC - U.S.	13,554	6,880	7,536	6,960	7,972	8,621	8,002	7,045	7,761	8,848	8,637

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
ESTIMATED FOSSIL FUEL REQUIREMENTS BY REGION - NATURAL GAS
1,000 MCF

*** FIRM NATURAL GAS - COMBINED CYCLE ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	4,144	32,591	30,018	26,694	30,772	28,894	27,175	27,522	25,855	27,752	26,101
MAAC	0	0	0	0	0	0	0	0	0	0	0
MAIN	0	0	0	0	0	0	0	0	0	0	0
MAPP - U.S.	0	0	0	0	0	0	0	0	0	0	0
NPCC - U.S.	0	0	0	0	0	0	0	0	0	0	0
SERC	0	0	0	0	0	0	0	0	0	0	0
SPP	27,136	20,997	18,709	21,867	22,826	24,223	25,253	24,717	26,922	27,795	28,053
WSCC - U.S.	31,930	65,497	59,495	56,381	53,829	56,081	54,092	55,348	53,105	55,445	55,151
NERC - U.S.	63,210	119,085	108,222	104,942	107,427	109,198	106,520	107,587	105,882	110,992	109,305
MAPP - CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	0	0	0	0	0	0	0	0	0	0	0

ESTIMATED FOSSIL FUEL REQUIREMENTS BY SUBREGION - NATURAL GAS
1,000 MCF

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND	0	0	0	0	0	0	0	0	0	0	0
NPCC - U.S.	0	0	0	0	0	0	0	0	0	0	0
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	0	0	0	0	0	0	0	0	0	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	0	0	0	0	0
SERC	0	0	0	0	0	0	0	0	0	0	0
SOUTHEAST	0	0	0	0	0	0	0	0	0	0	0
WEST CENTRAL	27,136	20,997	18,709	21,867	22,826	24,223	25,253	24,717	26,922	27,795	28,053
NORTHERN	0	0	0	0	0	0	0	0	0	0	0
SPP	27,136	20,997	18,709	21,867	22,826	24,223	25,253	24,717	26,922	27,795	28,053
NWPP - U.S.	0	0	0	0	0	0	0	0	0	0	0
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ - NM	20,814	23,749	17,377	14,301	11,719	14,071	12,762	13,988	12,165	14,615	14,301
CA - SNV	11,116	41,748	42,118	42,080	42,110	42,010	41,330	41,360	40,940	40,830	40,850
WSCC - U.S.	31,930	65,497	59,495	56,381	53,829	56,081	54,092	55,348	53,105	55,445	55,151

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
ESTIMATED FOSSIL FUEL REQUIREMENTS BY REGION - NATURAL GAS
1,000 MCF

*** TOTAL INTERRUPTIBLE[i] NATURAL GAS ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	1,930	2,650	2,650	2,650	1,850	1,850	1,900	1,950	2,000	2,050	2,025
ERCOT	299,440	321,652	304,242	296,926	287,901	293,966	326,014	308,475	282,357	275,026	261,026
MAAC	106,218	69,945	68,798	63,173	67,312	67,752	64,944	70,164	71,887	70,440	81,785
MAIN	3,068	2,104	1,317	1,580	1,757	2,149	1,910	2,909	3,718	4,666	7,619
MAPP - U.S.	468,244	3,311	3,085	3,494	3,499	3,654	4,006	4,166	4,237	4,244	4,579
NPCC - U.S.	154,883	106,492	104,496	107,290	74,591	37,295	7,109	6,839	6,689	6,792	6,932
SERC	4,523	9,901	9,768	4,911	5,469	6,365	16,373	44,982	39,376	44,991	42,840
SPP	342,108	264,491	288,857	277,896	290,610	280,779	302,589	291,395	297,998	287,020	284,307
WSCC - U.S.	2,372	21,648	21,448	23,974	41,288	45,464	50,910	51,512	51,449	48,189	46,126
NERC - U.S.	1,382,786	802,194	804,661	781,894	774,277	739,274	775,755	782,392	759,711	743,418	737,239
MAPP - CANADA	0	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC - CANADA	70	0	0	0	0	0	0	0	4,817	13,196	19,694
NERC - CANADA	70	6,000	6,000	6,000	6,000	6,000	6,000	6,000	10,817	19,196	25,694

ESTIMATED FOSSIL FUEL REQUIREMENTS BY SUBREGION - NATURAL GAS
1,000 MCF

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	117,042	106,492	104,496	107,290	74,591	37,295	7,109	6,839	6,689	6,792	6,932
NEW ENGLAND[g]	37,841	0	0	0	0	0	0	0	0	0	0
NPCC - U.S.	154,883	106,492	104,496	107,290	74,591	37,295	7,109	6,839	6,689	6,792	6,932
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	1,034	6,569	6,649	2,924	2,490	1,934	1,098	914	887	1,013	1,009
TVA[h]	0	—	—	—	—	—	—	—	—	—	—
VACAR	3,489	3,332	3,119	1,987	2,979	4,431	15,275	44,068	38,489	43,978	41,831
SERC	4,523	9,901	9,768	4,911	5,469	6,365	16,373	44,982	39,376	44,991	42,840
SOUTHEAST	286,373	223,894	211,947	200,692	201,566	187,332	203,240	186,517	188,602	161,666	161,037
WEST CENTRAL	44,554	28,768	62,072	64,176	70,845	72,910	75,737	78,016	83,328	91,960	96,665
NORTHERN	11,181	11,829	14,838	13,028	18,199	20,537	23,612	26,862	26,068	33,394	26,605
SPP	342,108	264,491	288,857	277,896	290,610	280,779	302,589	291,395	297,998	287,020	284,307
NWPP - U.S.	186	2,609	955	6,973	25,323	25,169	25,275	25,286	25,428	25,306	25,306
RMPA	2,186	2,031	2,031	1,980	1,980	1,980	1,485	990	990	990	990
AZ - NM	0	878	747	1,336	635	935	390	401	356	623	880
CA - SNV	0	16,130	17,715	13,685	13,350	17,380	23,760	24,835	24,675	21,270	18,950
WSCC - U.S.	2,372	21,648	21,448	23,974	41,288	45,464	50,910	51,512	51,449	48,189	46,126

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
ESTIMATED FOSSIL FUEL REQUIREMENTS BY REGION - NATURAL GAS
1,000 MCF

*** INTERRUPTIBLE[i] NATURAL GAS - STEAM ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	680	1,000	1,000	1,000	200	200	200	200	200	200	200
ERCOT	291,937	313,730	296,608	290,365	281,438	286,581	316,966	298,754	272,050	264,874	249,676
MAAC	90,073	55,034	55,340	50,904	55,617	54,674	53,134	55,926	57,900	56,717	65,021
MAIN	2,615	1,527	860	731	731	1,009	829	1,500	1,533	2,030	2,312
MAPP - U.S.	421,203	2,140	1,830	1,964	1,954	2,073	2,374	2,509	2,552	2,516	2,772
NPCC - U.S.	148,015	105,064	103,094	105,852	73,590	36,795	7,014	6,747	6,599	6,701	6,839
SERC	4,108	8,942	8,973	3,829	3,084	3,298	3,015	2,706	3,414	2,953	3,001
SPP	338,825	262,477	287,168	276,135	288,200	277,286	297,481	284,925	291,718	279,552	279,768
WSCC - U.S.	2,352	11,328	11,713	9,061	9,514	10,901	11,817	11,714	11,740	10,596	9,763
NERC - U.S.	1,299,808	761,242	766,586	739,841	714,328	672,817	692,830	664,981	647,706	626,139	619,352
MAPP - CANADA	0	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC - CANADA	70	0	0	0	0	0	0	0	4,817	13,196	19,694
NERC - CANADA	70	6,000	6,000	6,000	6,000	6,000	6,000	6,000	10,817	19,196	25,694

ESTIMATED FOSSIL FUEL REQUIREMENTS BY SUBREGION - NATURAL GAS
1,000 MCF

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	115,473	105,064	103,094	105,852	73,590	36,795	7,014	6,747	6,599	6,701	6,839
NEW ENGLAND[R]	32,542	0	0	0	0	0	0	0	0	0	0
NPCC - U.S.	148,015	105,064	103,094	105,852	73,590	36,795	7,014	6,747	6,599	6,701	6,839
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	1,008	6,412	6,433	2,825	2,396	1,880	1,062	888	862	984	981
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	3,100	2,530	2,540	1,004	688	1,418	1,953	1,818	2,552	1,969	2,020
SERC	4,108	8,942	8,973	3,829	3,084	3,298	3,015	2,706	3,414	2,953	3,001
SOUTHEAST	284,639	223,873	211,942	200,684	201,547	187,315	203,161	186,377	188,495	161,521	160,459
WEST CENTRAL	44,064	28,768	62,072	64,176	70,845	72,910	75,737	78,016	83,328	91,960	96,665
NORTHERN	10,122	9,836	13,154	11,275	15,808	17,061	18,583	20,532	19,895	26,071	22,644
SPP	338,825	262,477	287,168	276,135	288,200	277,286	297,481	284,925	291,718	279,552	279,768
NWPP - U.S.	166	929	955	925	959	956	1,062	1,073	1,064	1,093	1,093
RMPA	2,186	2,031	2,031	1,980	1,980	1,980	1,485	990	990	990	990
AZ - NM	0	878	747	1,336	635	935	390	401	356	623	880
CA - SNV	0	7,490	7,980	4,820	5,940	7,030	8,880	9,250	9,330	7,890	6,800
WSCC - U.S.	2,352	11,328	11,713	9,061	9,514	10,901	11,817	11,714	11,740	10,596	9,763

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
ESTIMATED FOSSIL FUEL REQUIREMENTS BY REGION - NATURAL GAS
1,000 MCF

*** INTERRUPTIBLE[i] NATURAL GAS - COMBUSTION TURBINE ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	1,250	1,650	1,650	1,650	1,650	1,650	1,700	1,750	1,800	1,850	1,825
ERCOT	259	0	0	0	436	436	2,187	2,424	3,167	3,613	4,156
MAAC	7,152	8,172	7,780	7,019	5,644	6,324	6,208	7,367	7,288	7,265	9,382
MAIN	367	541	440	825	1,002	1,088	1,005	1,289	2,080	2,446	5,107
MAPP - U.S.	46,984	1,075	1,255	1,530	1,544	1,581	1,632	1,657	1,685	1,724	1,769
NPCC - U.S.	2,032	1,428	1,402	1,438	1,001	500	95	92	90	91	93
SERC	415	959	795	1,082	2,385	3,067	2,792	2,392	3,040	1,744	2,174
SPP	1,020	1,386	1,084	1,689	2,143	3,000	4,507	5,513	5,394	6,716	3,482
WSCC - U.S.	20	8,640	9,735	11,511	10,067	12,996	17,526	18,231	18,002	16,026	14,796
NERC - U.S.	59,499	23,851	24,141	26,744	25,872	30,642	37,652	40,715	42,546	41,475	42,784
MAPP - CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	0	0	0	0	0	0	0	0	0	0	0

ESTIMATED FOSSIL FUEL REQUIREMENTS BY SUBREGION - NATURAL GAS
1,000 MCF

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	1,569	1,428	1,402	1,438	1,001	500	95	92	90	91	93
NEW ENGLAND[g]	463	0	0	0	0	0	0	0	0	0	0
NPCC - U.S.	2,032	1,428	1,402	1,438	1,001	500	95	92	90	91	93
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	26	157	216	99	94	54	36	26	25	29	28
TVA[h]	0	—	—	—	—	—	—	—	—	—	—
VACAR	389	802	379	983	2,291	3,013	2,756	2,366	3,015	1,715	2,146
SERC	415	959	795	1,082	2,385	3,067	2,792	2,392	3,040	1,744	2,174
SOUTHEAST	0	0	0	0	1	1	4	8	6	7	42
WEST CENTRAL	490	0	0	0	0	0	0	0	0	0	0
NORTHERN	530	1,386	1,084	1,689	2,142	2,999	4,503	5,505	5,388	6,709	3,440
SPP	1,020	1,386	1,084	1,689	2,143	3,000	4,507	5,513	5,394	6,716	3,482
NWPP - U.S.	20	0	0	2,646	2,657	2,646	2,646	2,646	2,657	2,646	2,646
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ - NM	0	0	0	0	0	0	0	0	0	0	0
CA - SNV	0	8,640	9,735	8,865	7,410	10,350	14,880	15,585	15,345	13,380	12,150
WSCC - U.S.	20	8,640	9,735	11,511	10,067	12,996	17,526	18,231	18,002	16,026	14,796

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
ESTIMATED FOSSIL FUEL REQUIREMENTS BY REGION - NATURAL GAS
1,000 MCF

*** INTERRUPTIBLE[i] NATURAL GAS - COMBINED CYCLE ***

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ECAR	0	0	0	0	0	0	0	0	0	0	0
ERCOT	7,244	7,922	7,634	6,561	6,027	6,949	6,861	7,297	7,140	6,539	7,194
MAAC	8,993	6,739	5,678	5,250	6,051	6,754	5,602	6,871	6,699	6,458	7,382
MAIN	86	36	17	24	24	52	76	120	105	190	200
MAPP - U.S.	57	96	0	0	1	0	0	0	0	4	38
NPCC - U.S.	4,836	0	0	0	0	0	0	0	0	0	0
SERC	0	0	0	0	0	0	10,566	39,884	32,922	40,294	37,665
SPP	2,263	628	605	72	267	493	601	957	886	752	1,057
WSCC - U.S.	0	1,680	0	3,402	21,707	21,567	21,567	21,567	21,707	21,567	21,567
NERC - U.S.	23,479	17,101	13,934	15,309	34,077	35,815	45,273	76,696	69,459	75,804	75,103
MAPP - CANADA	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
WSCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
NERC - CANADA	0	0	0	0	0	0	0	0	0	0	0

ESTIMATED FOSSIL FUEL REQUIREMENTS BY SUBREGION - NATURAL GAS
1,000 MCF

	ACTUAL 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
NEW YORK	0	0	0	0	0	0	0	0	0	0	0
NEW ENGLAND[g]	4,836	0	0	0	0	0	0	0	0	0	0
NPCC - U.S.	4,836	0	0	0	0	0	0	0	0	0	0
NEW BRUNSWICK	0	0	0	0	0	0	0	0	0	0	0
ONTARIO	0	0	0	0	0	0	0	0	0	0	0
QUEBEC	0	0	0	0	0	0	0	0	0	0	0
NPCC - CANADA	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN	0	0	0	0	0	0	0	0	0	0	0
TVA	0	0	0	0	0	0	0	0	0	0	0
VACAR	0	0	0	0	0	0	10,566	39,884	32,922	40,294	37,665
SERC	0	0	0	0	0	0	10,566	39,884	32,922	40,294	37,665
SOUTHEAST	1,734	21	5	8	18	16	75	132	101	138	536
WEST CENTRAL	0	0	0	0	0	0	0	0	0	0	0
NORTHERN	529	607	600	64	249	477	526	825	785	614	521
SPP	2,263	628	605	72	267	493	601	957	886	752	1,057
NWPP - U.S.	0	1,680	0	3,402	21,707	21,567	21,567	21,567	21,707	21,567	21,567
RMPA	0	0	0	0	0	0	0	0	0	0	0
AZ - NM	0	0	0	0	0	0	0	0	0	0	0
CA - SNV	0	0	0	0	0	0	0	0	0	0	0
WSCC - U.S.	0	1,680	0	3,402	21,707	21,567	21,567	21,567	21,707	21,567	21,567

Footnotes to Fossil Fuel Requirements

a/ Coal mined west of the Mississippi River.

b/ Coal sources indeterminate for ECAR.

c/ Distillate oil includes #1 and #2 oil, kerosene and jet fuel. This category includes amounts used at coal-burning plants for start-up and flame stabilization.

d/ ECAR includes approximately 1,000,000 barrels for light-off and flame stabilization.

e/ Includes diesel.

f/ Residual oil includes #4, #5, #6 oil.

g/ Natural gas in New England is burned on an as available, interruptible basis. No firm contracts are anticipated in the future.

h/ Natural gas is used in 30% of TVA combustion turbine capacity when it is available and economic. TVA does not have any firm long-term contracts, and does not forecast gas usage long term.

i/ Interruptible Natural Gas: by contractual agreement.

PLANNED GENERATING UNIT ADDITIONS AND RETIREMENTS

The **Planned Generating Unit Additions and Retirements** projected for 1985-1994 are listed chronologically in the following table.

The codes used throughout these tables for unit/fuel type and construction status are listed below. State locations of units are denoted by their two-character federal postal codes. Generating units which are jointly owned are denoted with a "J" in the far right-hand column. In such cases, only the name of the majority utility owner is listed, along with the total summer megawatt generating capability of the unit. Utility system abbreviations follow the conventions used in the Regional IE-411 Reports.

These data are from the April 1, 1985 IE-411 Reports, Item 2-B.

SYMBOL CODES

UNIT TYPE		FUEL TYPE	
ST	STEAM TURBINE-NON NUCLEAR	WH	WASTE HEAT
NB	STEAM-BWR NUCLEAR	COL	COAL - GENERAL
NP	STEAM-PWR NUCLEAR	BIT	BITUMINOUS COAL
NH	STEAM-HTGR NUCLEAR	SUB	SUB-BITUMINOUS COAL
CD	CANDU	ANT	ANTHRACITE COAL
IC	INTERNAL COMBUSTION	LIG	LIGNITE COAL
GT	COMBUSTION TURBINE	PC	PETROLEUM COKE
HY	CONVENTIONAL HYDRO	LNG	LIQUIFIED NATURAL GAS
PS	PUMPED STORAGE HYDRO	MTH	METHANOL
CW	COMBINED CYCLE-STEAM PORTION-WASTE HEAT ONLY	GAS	GAS - GENERAL
CA	COMBINED CYCLE-STEAM PORTION-AUXILIARY FIRED	NG	NATURAL GAS
CT	COMBINED CYCLE-COMBUSTION TURBINE PORTION	RG	REFINERY GAS
CC	COGENERATION	BFG	BLAST FURNACE GAS
JE	JET ENGINE	COG	COKE OVEN GAS
FC	FUEL CELL	UNK	UNKNOWN AT THIS TIME
SO	SOLAR	GST	GEOTHERMAL STEAM
WH	WIND POWER	MUL	MULTI-FUELED
GE	GEOTHERMAL	REF	REFUSE - SOLID WASTE
ZZ	NONE OF THE ABOVE	OIL	OIL - GENERAL
UN	UNKNOWN AT THIS TIME	FO1	NO.1 FUEL OIL
		FO2	NO.2 FUEL OIL
		FO4	NO.4 FUEL OIL
		FO5	NO.5 FUEL OIL
		FO6	NO.6 FUEL OIL
		CRU	CRUDE OIL
		TOP	TOP CRUDE OIL
CONSTRUCTION STATUS		JF	JET FUEL
		KER	KEROSENE
P	PLANNED FOR INSTALLATION, BUT NOT UTILITY AUTHORIZED	LPG	LIQUID PROPANE GAS
L	REGULATORY APPROVAL PENDING	RRO	RE-REFINED MOTOR OIL
T	REGULATORY APPROVAL RECEIVED, BUT NOT UNDER CONSTRUCTION	SNG	SYNTHETIC NATURAL GAS
U	UNDER CONSTRUCTION, LESS THAN APPROXIMATELY 50% OF PLANT COMPLETED	UR	URANIUM
V	UNDER CONSTRUCTION, GREATER THAN APPROXIMATELY 50% OF PLANT COMPLETED	PL	PLUTONIUM
R	PLANNED FOR RETIREMENT	WAT	WATER
		TH	THORIUM
		SUN	SUN
		WND	WIND
		G/C	GAS AND/OR COAL
		O/C	OIL AND/OR COAL
		W/G	WOOD AND/OR GAS
		W/O	WOOD AND/OR OIL
		WOD	WOOD
		WD	WOOD AND WOOD WASTE
		PEA	PEAT
		ZZ	NONE OF THE AB VE

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
LISTING OF GENERATING UNIT ADDITIONS AND RETIREMENTS

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED DATE	CONSTRUCTION STATUS	JOINTLY OWNED
WSCC/RMPA	CO	PSC	BIO - GAS NO. 1	ZZ	5	ZZ	04/85	V	
WSCC/CA-SNV	CA	SCE	BIOMASS OK POWER	IC	1	ZZ	04/85	V	
NPCC/ONT	ON	ONHY	BRUCE 5	CD	784	UR	04/85	V	
WSCC/CA-SNV	CA	PG&E	COGENERATION	CG	20	UNK	04/85	P	
WSCC/CA-SNV	CA	PG&E	DIABLO CANYON 1	NP	1086	UR	04/85	V	
WSCC/RMPA	CO	PSC	FOOTHILLS HYDRO	HY	3	WAT	04/85	V	
NPCC/NE	ME	CEMP	HIRAM HYDRO	HY	9	WAT	04/85	U	
WSCC/RMPA	CO	PSC	IGNACIO GAS PLANT	CG	3	NG	04/85	V	
SERC/SOU	AL	ALAP	MITCHELL 1-3	HY	-51	WAT	04/85	R	
SERC/SOU	AL	ALAP	MITCHELL 5-7	HY	151	WAT	04/85	U	
NPCC/NE	VT	VTGP	NORTH HARTLAND	HY	1	WAT	04/85	V	
WSCC/NWPP	WA	TCL	P.E.C. 66.0 1	HY	2	WAT	04/85	V	
WSCC/CA-SNV	CA	MWD	RED MOUNTAIN 1	HY	6	WAT	04/85	V	
WSCC/RMPA	CO	PSC	SMALL HYDRO	HY	2	WAT	04/85	P	
WSCC/RMPA	CO	PSC	STRONTIA SPRINGS	HY	1	WAT	04/85	V	
ECAR	VA	APS	BATH CO. PUMPED STORAGE	PS	140	WAT	05/85	V	
SERC/VACAR	VA	VIEP	BATH COUNTY 1	PS	210	WAT	05/85	V	
MAPP-U.S.	IA	ISU	BLOOMFIELD 1	IC	1	FO2	05/85	V	
MAPP-U.S.	IA	ISU	BLOOMFIELD 2	IC	1	FO2	05/85	V	
MAPP-U.S.	IA	ISU	BLOOMFIELD 3	IC	1	FO2	05/85	V	
MAPP-U.S.	IA	ISU	BLOOMFIELD 4	IC	1	FO2	05/85	V	
MAPP-U.S.	IA	ISU	BLOOMFIELD 5	IC	1	FO2	05/85	V	
MAPP-U.S.	IA	ISU	BLOOMFIELD 6	IC	1	FO2	05/85	V	
WSCC/CA-SNV	CA	SMUD	COMBUSTION TURBINE 1	GT	50	NG	05/85	L	
NPCC/NE	** [a]	IMLD	IPSWICH DIESEL 14	IC	1	GAS	05/85	U	
MAIN/WIUM	WI	MPU	MANITOWOC 1	IC	5	OIL	05/85	V	
MAIN/WIUM	WI	MPU	MANITOWOC 2	IC	5	OIL	05/85	V	
SERC/SOU	AL	ALAP	MILLER 2	ST	666	BIT	05/85	V	
MAPP-U.S.	IA	ISU	MT.PLEASANT 1	ST	1	FO2	05/85	V	
MAPP-U.S.	IA	ISU	MT.PLEASANT 5	ST	3	COL	05/85	V	
MAPP-U.S.	IA	ISU	MT.PLEASANT 7	ST	8	COL	05/85	V	
MAAC	PA	PECO	RICHMOND 9	ST	-166	FO2	05/85	R	
ECAR	VA	APS	BATH CO. PUMPED STORAGE	PS	140	WAT	06/85	V	
ECAR	VA	APS	BATH CO. PUMPED STORAGE	PS	140	WAT	06/85	V	
SERC/VACAR	VA	VIEP	BATH COUNTY 2	PS	210	WAT	06/85	V	
SERC/VACAR	VA	VIEP	BATH COUNTY 3	PS	210	WAT	06/85	V	
WSCC/CA-SNV	CA	SMUD	CAMP FAR WEST	HY	0	WAT	06/85	V	
ERCOT	TX	HL&P	COGENERATION/OTHER	CG	300	UNK	06/85	X [b]	
WSCC/CA-SNV	CA	PG&E	FPA FRIANT	HY	2	WAT	06/85	P	
WSCC/CA-SNV	CA	SCE	GEOTHERMAL	GE	5	GST	06/85	V	
SPP/NORTH	MO	KACP	GRAND AVE 5	ST	0	BIT	06/85	R	
SPP/NORTH	MO	KACP	GRAND AVE 7	ST	-30	BIT	06/85	R	
SPP/NORTH	MO	KACP	GRAND AVE 9	ST	-40	BIT	06/85	R	
SPP/S.EAST	MS	MSUI	GRAND GULF 1	NB	1250 [e]	UR	06/85	V	J
SERC/FLA	FL	TALL	JACKSON BLUFF 1	HY	3	WAT	06/85	V	
WSCC/NWPP	WA	GCPD	QUINCY CHUTE	HY	9	WAT	06/85	V	
SERC/VACAR	GA	SEPA	RICHARD B. RUSSELL 3	HY	75	WAT	06/85	V	J
MAAC	PA	BCCO	SAFE HARBOR 10	HY	38	WAT	06/85	V	J
MAIN/WIUM	** [a]	WEP	SMALL UNITS	UN	10	UNK	06/85	P	
WSCC/CA-SNV	CA	SMUD	SOLAR 2	SO	1	SUN	06/85	U	
WSCC/AZ-NM	AZ	TEP	SPRINGERVILLE 1	ST	330	SUB	06/85	V	
SPP/W.CENT.	TX	SWPS	TOLK 2	ST	508	SUB	06/85	V	
WSCC/NWPP	NV	SPP	VALMY 2	ST	250	BIT	06/85	V	J
SPP/NORTH	KS	KAGE	WOLF CREEK 1	NP	1117	UR	06/85	V	J

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
LISTING OF GENERATING UNIT ADDITIONS AND RETIREMENTS

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED DATE	CONSTRUCTION STATUS	JOINTLY OWNED
NPCC/ONT	ON	ONHY	ATIKOKAN 1	ST	206	COL	07/85	V	
ECAR	MI	DECO	BELLE RIVER 2	ST	655	COL	07/85	V	
WSCC/CA-SNV	CA	SCE	BIOMASS	IC	2	ZZ	07/85	V	
WSCC/NWPP	UT	DGT	BONANZA 1	ST	400	BIT	07/85	V	
ERCOT	TX	TMPP	C.E.NEWMAN 1	ST	-9	NG	07/85	R	
ERCOT	TX	TMMP	C.E.NEWMAN 2	ST	-8	NG	07/85	R	
WSCC/CA-SNV	CA	SCE	COMBINED WIND	WM	48	WND	07/85	V	
ECAR	MI	DECO	ENRICO FERMI 2	NB	1093	UR	07/85	V	J
WSCC/CA-SNV	CA	SCE	IMPERIAL ENERGY	GE	1	GST	07/85	U	
WSCC/CA-SNV	CA	SCE	ORMAT TURB. LTD.	SO	12	SUN	07/85	T	
NPCC/ONT	ON	ONHY	PICKERING 8	CD	516	UR	07/85	V	
MAIN/WIUM	WI	WEP	PLEASANT PRAIRIE 2	ST	580	SUB	07/85	V	
WSCC/CA-SNV	CA	MWD	VALLEY VIEW 1	HY	4	WAT	07/85	V	
SPP/S.EAST	LA	MSUI	WATERFORD 3	NP	1104	UR	07/85	V	
WSCC/CA-SNV	CA	PG&E	DIABLO CANYON 2	NP	1119	UR	08/85	V	
WSCC/CA-SNV	CA	SCE	GEOTHERMAL 1	GE	47	GST	08/85	V	
WSCC/NWPP	OR	PGE	L.M.BAKER	HY	20	WAT	08/85	P	
MAAC	PA	PECO	LIMERICK 1	NB	1055	UR	08/85	V	
SERC/VACAR	GA	SEPA	RICHARD B. RUSSELL 4	HY	75	WAT	08/85	V	J
WSCC/CA-SNV	CA	CDWR	ALAMO 1	HY	17	WAT	09/85	V	
WSCC/CA-SNV	CA	SCE	CHINA LAKE JOINT	GE	45	GST	09/85	U	
WSCC/CA-SNV	CA	WAMP	COYOTE DAM	HY	2	WAT	09/85	V	
WSCC/CA-SNV	CA	NCPA	GEOTHERMAL PROJ. 3	GE	110	GST	09/85	V	
WSCC/CA-SNV	CA	SCE	MAGMA-NILAND 1	GE	29	GST	09/85	V	
WSCC/CA-SNV	CA	PG&E	OIL FIELD COGEN ACC 3	CG	7	CRU	09/85	P	
WSCC/CA-SNV	CA	SCE	SOLAR	SO	14	SUN	09/85	T	
WSCC/CA-SNV	CA	SNCL	STONY GORGE DAM	HY	5	WAT	09/85	V	
WSCC/CA-SNV	CA	WAMP	WEBER GT	CG	9	NG	09/85	V	
ECAR	VA	APS	BATH CO. PUMPED STORAGE	PS	140	WAT	10/85	V	
SERC/VACAR	VA	VIEP	BATH COUNTY 4	PS	210	WAT	10/85	V	
WSCC/NWPP	WA	SCL	BOUNDARY 55	HY	0	WAT	10/85	V	
WSCC/CA-SNV	CA	PG&E	OAK FLAT	HY	1	WAT	10/85	U	
MAAC	PA	PECO	PLYMOUTH MEETING 15	GT	-29	FO2	10/85	R	
MAAC	PA	PECO	PLYMOUTH MEETING 9	GT	-29	FO2	10/85	R	
MAAC	PA	PECO	RICHMOND 21	GT	-30	FO2	10/85	R	
MAAC	PA	PECO	RICHMOND 22	GT	-30	FO2	10/85	R	
MAAC	PA	PECO	RICHMOND 31	GT	-30	FO2	10/85	R	
MAAC	PA	PECO	RICHMOND 32	GT	-30	FO2	10/85	R	
MAAC	PA	PECO	RICHMOND 41	GT	-20	FO2	10/85	R	
MAAC	PA	PECO	RICHMOND 42	GT	-20	FO2	10/85	R	
MAAC	PA	PECO	RICHMOND 43	GT	-20	FO2	10/85	R	
MAAC	PA	PECO	RICHMOND 44	GT	-20	FO2	10/85	R	
MAAC	PA	PECO	RICHMOND 51	GT	-30	FO2	10/85	R	
MAAC	PA	PECO	RICHMOND 52	GT	-30	FO2	10/85	R	
MAAC	PA	PECO	RICHMOND 61	GT	-30	FO2	10/85	R	
MAAC	PA	PECO	RICHMOND 62	GT	-30	FO2	10/85	R	
MAAC	PA	PECO	RICHMOND 71	GT	-20	FO2	10/85	R	
MAAC	PA	PECO	RICHMOND 72	GT	-20	FO2	10/85	R	
MAAC	PA	PECO	RICHMOND 73	GT	-20	FO2	10/85	R	
MAAC	PA	PECO	RICHMOND 74	GT	-20	FO2	10/85	R	
NPCC/NY	NY	LOIL	SHOREHAM	NB	809	UR	10/85	V	
SERC/TVA	TN	TEVA	WATTS BAR 1	NP	1170	UR	10/85	V	
SERC/SOU	AL	GEPC	BARTLETT'S FERRY 5-6	HY	100	WAT	11/85	V	
ECAR	VA	APS	BATH CO. PUMPED STORAGE	PS	140	WAT	11/85	V	

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
LISTING OF GENERATING UNIT ADDITIONS AND RETIREMENTS

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED DATE	CONSTRUCTION STATUS	JOINTLY OWNED
SERC/VACAR	VA	VIEP	BATH COUNTY 5	PS	210	WAT	11/85	V	
NPCC/ONT	ON	ONHY	DARLINGTON CT'S	GT	104	FO2	11/85	V	
MAPP-U.S.	MT	MDU	GLENDIVE 1	ST	-3	NG	11/85	R	
MAPP-U.S.	MT	MDU	GLENDIVE 2	ST	-3	NG	11/85	R	
MAPP-U.S.	MN	CPA	MOUNTAIN LAKE 2	IC	-1	FO2	11/85	R	
MAPP-U.S.	MN	CPA	MOUNTAIN LAKE 4	IC	-2	FO2	11/85	R	
MAPP-U.S.	MN	CPA	MOUNTAIN LAKE 5	IC	-1	FO2	11/85	R	
WSCC/RMPA	CO	PSC	MT. ELBERT CONDUIT	HY	3	WAT	11/85	T	
MAPP-CAN.	SA	SPC	NIPAWIN 1	HY	84	WAT	11/85	V	
WSCC/AZ-NM	AZ	APS	PALO VERDE 1	NP	1270	UR	11/85	V	J
MAIN/SCILL	IL	CIL	R.S.WALLACE 6	ST	-40	COL	11/85	R	
MAIN/SCILL	IL	CIL	R.S.WALLACE 7	ST	-88	COL	11/85	R	
MAAC	PA	BCCO	SAFE HARBOR 12	HY	38	WAT	11/85	V	J
MAPP-U.S.	MN	SMMP	WELLS 3	IC	-1	FO2	11/85	R	
MAPP-U.S.	ND	MDU	WILLISTON 1	ST	-2	NG	11/85	R	
WSCC/CA-SNV	CA	PG&E	WOOD WASTE	CG	22	ZZ	11/85	P	
SPP/S.EAST	LA	MSUI	A. B. PATERSON 3	ST	-55	NG	12/85	R	
ECAR	VA	APS	BATH CO. PUMPED STORAGE	PS	140	WAT	12/85	V	
SERC/VACAR	VA	VIEP	BATH COUNTY 6	PS	210	WAT	12/85	V	
WSCC/NWPP	WA	WWPC	BIG SHEEP CR	HY	1	WAT	12/85	U	
SPP/S.EAST	AR	MSUI	CECIL LYNCH 1	ST	-28	NG	12/85	R	
SPP/S.EAST	AR	MSUI	CECIL LYNCH 2	ST	-55	NG	12/85	R	
WSCC/CA-SNV	CA	SCE	CITY OF PALM SPRINGS	CG	1	NG	12/85	V	
WSCC/CA-SNV	CA	PG&E	GEISERS 16	GE	118	GST	12/85	V	
WSCC/CA-SNV	CA	PG&E	GEISERS 20	GE	118	GST	12/85	V	
SPP/S.EAST	AR	MSUI	LAKE CATHERINE 1	ST	-45	NG	12/85	R	
SPP/S.EAST	AR	MSUI	LAKE CATHERINE 2	ST	-44	NG	12/85	R	
WSCC/CA-SNV	CA	SCE	LARGE COGENERATION	CG	170	NG	12/85	V	
ERCOT	TX	HL&P	LIMESTONE 1	ST	720	LIG	12/85	V	
ERCOT	TX	AUST	LONGHORN DAM HYDRO 1	HY	3	WAT	12/85	L	
MAPP-CAN.	SA	SPC	NIPAWIN 2	HY	84	WAT	12/85	V	
SERC/VACAR	VA	VIEP	NORTH ANNA HYDRO 1	HY	1	WAT	12/85	U	
ECAR	OH	CAPC	PERRY 1	NB	1179	UR	12/85	V	J
WSCC/CA-SNV	CA	PG&E	QF WIND 85	WM	9	WND	12/85	P	
SPP/S.EAST	LA	GUSU	RIVER BEND 1	NB	940	UR	12/85	V	J
WSCC/CA-SNV	CA	PG&E	SLO SALINAS RES	HY	0	WAT	12/85	P	
WSCC/CA-SNV	CA	PG&E	SMALL QF HYDRO 85	HY	3	WAT	12/85	P	
WSCC/CA-SNV	CA	SCE	SOLAR	SO	30	SUN	12/85	T	
WSCC/CA-SNV	CA	PG&E	SOLID WASTE	ZZ	7	ZZ	12/85	P	
MAAC	PA	PECO	SOUTHWARK 1	ST	-163	FO6	12/85	R	
MAAC	PA	PECO	SOUTHWARK 2	ST	-173	FO6	12/85	R	
MAAC	PA	PECO	SOUTHWARK D	IC	-3	FO2	12/85	R	
SERC/VACAR	SC	DUPC	CATAWBA 1	NP	1145	UR	**/85 [f]	V	
NPCC/QUE	QB	HYQB	LA GRANDE 4, UNIT 7	HY	298	WAT	**/85 [f]	V	
NPCC/QUE	QB	HYQB	LA GRANDE 4, UNIT 8	HY	298	WAT	**/85 [f]	V	
NPCC/QUE	QB	HYQB	LA GRANDE 4, UNIT 9	HY	298	WAT	**/85 [f]	V	
ECAR	IN	SIGE	A.B.BROWN 2	ST	250	COL	01/86	V	
WSCC/CA-SNV	CA	SCE	BIOMASS CENTRAL PLANT	IC	7	ZZ	01/86	U	
WSCC/CA-SNV	CA	SCE	BKK LANDFILL	GT	5	ZZ	01/86	T	
WSCC/CA-SNV	CA	SCE	CHIQUITA CANYON	IC	0	ZZ	01/86	T	
WSCC/NWPP	ID	IPC	COGEN NO. 3	CG	9	UNK	01/86	P	
WSCC/CA-SNV	CA	PG&E	COGENERATION	CG	50	UNK	01/86	P	
ERCOT	TX	TUEC	COMANCHE PEAK 1	NP	1150	UR	01/86	V	J
SERC/SOU	AL	SOEG	GASTON A	CT	-16	OIL	01/86	R	

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
LISTING OF GENERATING UNIT ADDITIONS AND RETIREMENTS

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED DATE	CONSTRUCTION STATUS	JOINTLY OWNED
WSCC/CA-SNV	CA	SCE	GENERIC HYDRO	HY	2	WAT	01/86	P	
SPP/W.CENT.	OK	GRRD	GRDA 2	ST	520	BIT	01/86	V	
WSCC/CA-SNV	CA	NCPA	GT PROJECT 1	GT	25	NG	01/86	L	J
WSCC/CA-SNV	CA	NCPA	GT PROJECT 2	GT	25	NG	01/86	L	J
WSCC/CA-SNV	CA	NCPA	GT PROJECT 3	GT	25	NG	01/86	L	J
WSCC/CA-SNV	CA	SNCL	HIGH LINE CANAL	HY	0	WAT	01/86	T	
SERC/FLA	FL	TALL	JACKSON BLUFF 3	HY	1	WAT	01/86	V	
WSCC/CA-SNV	CA	SMUD	JONES FORK	HY	10	WAT	01/86	V	
WSCC/CA-SNV	CA	CCSF	MOCCASIN	HY	2	WAT	01/86	P	
NPCC/NE	VT	VTGP	MORETOWN	HY	0	WAT	01/86	P	
WSCC/CA-SNV	CA	MID	NEW HOGAN DAM	HY	3	WAT	01/86	T	
WSCC/CA-SNV	CA	SCE	NPN PARTNERSHIP	GE	25	GST	01/86	U	
WSCC/CA-SNV	CA	CCSF	O'SHAUGHNESSY	HY	3	WAT	01/86	P	
WSCC/CA-SNV	CA	SCE	PENROSE LANDFILL	IC	3	ZZ	01/86	T	
WSCC/NWPP	ID	WWPC	POTLATCH CORP.	CG	35	WD	01/86	P	
WSCC/CA-SNV	CA	SCE	RENEWABLE POWER	SO	14	SUN	01/86	U	
MAAC	PA	BCCO	SAFE HARBOR 9	HY	38	WAT	01/86	V	J
WSCC-CAN.	AL	TAUC	SHEERNESS 1	ST	366	SUB	01/86	V	J
WSCC/CA-SNV	CA	PG&E	SOLID WASTE	ZZ	50	ZZ	01/86	P	
WSCC/CA-SNV	CA	SCE	SUNLAW COGEN	CG	56	NG	01/86	T	
WSCC/CA-SNV	CA	SCE	TOYON LANDFILL	IC	3	ZZ	01/86	T	
WSCC/CA-SNV	CA	MID	UNNAMED HYDRO 1	HY	2	WAT	01/86	P	
WSCC/CA-SNV	CA	SCE	VALLEY POWER CORP	ST	50	WD	01/86	T	
WSCC/CA-SNV	CA	RDNG	WHISKEYTOWN	HY	1	WAT	01/86	T	
SPP/W.CENT.	LA	SOEP	DOLET HILLS 1	ST	640	LIG	02/86	V	J
WSCC/CA-SNV	CA	PG&E	TOADTOWN	HY	0	WAT	02/86	T	
WSCC/NWPP	WA	SCL	BOUNDARY 56	HY	0	WAT	03/86	V	
ERCOT	TX	TUEC	COGENERATION	CG	200	UNK	03/86	X[c]	
WSCC/CA-SNV	CA	LDWP	COGENERATION	CG	6	UNK	03/86	P	
WSCC/CA-SNV	CA	NCPA	GT PROJECT 4	GT	25	NG	03/86	L	J
MAPP-CAN.	SA	SPC	NIPAWIN 3	HY	84	WAT	03/86	V	
NPCC/NY	NY	POAS	PASNY NEW HYDRO	HY	9	WAT	03/86	P	
WSCC/RMPA	CO	PSC	BETASSO HYDRO	HY	3	WAT	04/86	T	
NPCC/ONT	ON	ONHY	BRUCE 7	CD	784	UR	04/86	V	
WSCC/RMPA	CO	PRPA	BUTTONROCK	HY	3	WAT	04/86	T	
WSCC/CA-SNV	CA	PG&E	COGENERATION	CG	120	UNK	04/86	P	
WSCC/NWPP	MT	MPC	COLSTRIP 4	ST	700	BIT	04/86	V	J
WSCC/CA-SNV	CA	SCE	GEOTHERMAL	GE	24	GST	04/86	U	
WSCC/NWPP	WA	TCL	MAIN CANAL HEADWORKS	HY	22	WAT	04/86	T	
WSCC/AZ-NM	AZ	APS	PALO VERDE 2	NP	1270	UR	04/86	V	J
ECAR	IN	IP&L	PETERSBURG 4	ST	515	COL	04/86	V	
MAAC	PA	BCCO	SAFE HARBOR 11	HY	38	WAT	04/86	V	J
WSCC/RMPA	CO	PSC	SMALL HYDRO	HY	1	WAT	04/86	P	
WSCC/RMPA	CO	PSC	SUNSHINE HYDRO	HY	1	WAT	04/86	P	
WSCC/RMPA	CO	PSC	ALAMOSA 4	ST	-2	FO6	05/86	R	
WSCC/RMPA	CO	PSC	ALAMOSA 5	ST	-5	FO6	05/86	R	
WSCC/RMPA	CO	PSC	ALAMOSA 6	ST	-10	FO6	05/86	R	
WSCC/CA-SNV	CA	TID	GT PROJECT 1	GT	25	NG	05/86	P	
WSCC/CA-SNV	CA	TID	GT PROJECT.2	GT	25	NG	05/86	P	
MAPP-U.S.	MN	OTP	HOOT LAKE 1	ST	-3	LIG	05/86	R	
NPCC/NE	CT	NOEU	MILLSTONE 3	NP	1150	UR	05/86	V	
WSCC/CA-SNV	CA	PG&E	SCOTT	HY	1	WAT	05/86	L	
MAPP-U.S.	ND	BEPC	ANTELOPE VALLEY 2	ST	450	LIG	06/86	V	
SPP/NORTH	MO	EMDE	ASBURY 2	ST	20	BIT	06/86	U	

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
LISTING OF GENERATING UNIT ADDITIONS AND RETIREMENTS

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED DATE	CONSTRUCTION STATUS	JOINTLY OWNED
WSCC/CA-SNV	CA	PG&E	COGENERATION	CG	120	UNK	06/86	P	
WSCC/CA-SNV	CA	PG&E	COGENERATION	CG	74	FO6	06/86	P	
WSCC/CA-SNV	CA	LDWP	COGENERATION	CG	28	UNK	06/86	P	
ERCOT	TX	HL&P	COGENERATION/OTHER	CG	300	UNK	06/86	X[b]	
SERC/FLA	FL	SEBM	DINNER LAKE 1	ST	-11	NG	06/86	R	
ECAR	IN	NIPS	R.M.SCHAHFER 18	ST	344	COL	06/86	V	
MAIN/WIUM	**[a]	WEP	SMALL UNITS	UN	20	UNK	06/86	P	
WSCC/CA-SNV	CA	SMUD	SOLAR 3	SO	5	SUN	06/86	P	
WSCC/CA-SNV	CA	PG&E	SOLID WASTE	ZZ	48	ZZ	06/86	P	
WSCC/CA-SNV	CA	CDWR	SOUTH GEYSERS	GE	55	GST	06/86	U	
WSCC/CA-SNV	CA	SCE	BIOMASS	IC	4	ZZ	07/86	T	
WSCC/CA-SNV	CA	SCE	COMBINED WIND	WM	18	WND	07/86	P	
WSCC/CA-SNV	CA	NCPA	GT PROJECT 5	GT	25	NG	07/86	L	J
WSCC/CA-SNV	CA	SCE	INLAND CONTAINER	CG	17	NG	07/86	U	
WSCC/CA-SNV	UT	LDWP	INTERMOUNTAIN 1	ST	761	BIT	07/86	U	J
WSCC/CA-SNV	CA	SCE	MAGMA-NILAND 2	GE	8	GST	07/86	T	
WSCC/CA-SNV	CA	CDWR	MOJAVE SIPHON 1	HY	7	WAT	07/86	P	
WSCC/CA-SNV	CA	SCE	ORMAT TUPB. LTD.	SO	12	SUN	07/86	T	
WSCC/CA-SNV	CA	PG&E	SAND BAR	HY	12	WAT	07/86	L	
WSCC/CA-SNV	CA	GLEN	SCHOLL CANYON 2	IC	5	ZZ	07/86	T	
WSCC/CA-SNV	CA	PG&E	UNIDENTIFIED COGENERATION	CG	-46	FO6	07/86	R	
SERC/VACAR	NC	CAPO	HARRIS 1	NP	900	UR	09/86	V	
NPCC/NE	NH	PSNH	SEABROOK 1	NP	1150	UR	09/86	V	J
MAIN/CE	IL	CECO	BRAIDWOOD 1	NP	1090	UR	10/86	V	
MAIN/CE	IL	CECO	BYRON 2	NP	1120	UR	10/86	V	
NPCC/NY	NY	CEHG	HIGH FALLS	HY	2	WAT	10/86	T	
WSCC/CA-SNV	CA	SCE	OLS ENERGY	CG	25	NG	10/86	T	
WSCC/CA-SNV	CA	SCE	OLS ENERGY	CG	26	NG	10/86	T	
NPCC/NE	VT	VTGP	BOLTON FALLS	HY	3	WAT	11/86	T	
NPCC/NY	NY	NEYE	CADYVILLE	HY	3	WAT	11/86	T	
MAIN/SCILL	IL	IPSW	CLINTON 1	NB	950	UR	11/86	V	J
NPCC/NE	NH	PSNH	CONWAY DIESELS 1-3	IC	-3	FO2	11/86	R	
MAAC	DE	DPLC	DELAWARE CITY 1	ST	-27	ZZ	11/86	R	
MAAC	DE	DPLC	DELAWARE CITY 2	ST	-27	ZZ	11/86	R	
MAAC	DE	DPLC	DELAWARE CITY 3	ST	-40	FO6	11/86	R	
NPCC/NE	VT	VTGP	ENOSBURG FALLS	HY	1	WAT	11/86	P	
MAPP-U.S.	MN	SMMP	GRAND MARAIS 1	IC	-1	FO2	11/86	R	
NPCC/NY	NY	NIMP	NINE MILE POINT 2	NP	1080	UR	11/86	V	J
NPCC/NE	VT	VTGP	NORTH TROY	HY	0	WAT	11/86	P	
WSCC/CA-SNV	CA	SCE	BIOMASS	ST	25	ZZ	12/86	T	
WSCC/CA-SNV	CA	LDWP	COGENERATION	CG	51	UNK	12/86	P	
NPCC/NE	CT	NOEU	ENFIELD 10	JE	-17	FO1	12/86	R	
ERCOT	TX	AUST	GAS TURBINE 1	GT	100	NG	12/86	L	
SPP/S.EAST	AR	MSUI	H. MOSES 1	ST	-63	NG	12/86	R	
SPP/S.EAST	AR	MSUI	H. MOSES 2	ST	-63	NG	12/86	R	
SPP/S.EAST	AR	MSUI	HARVEY COUCH 1	ST	-25	NG	12/86	R	
MAAC	NJ	PSCO	HOPE CREEK 1	NB	1067	UR	12/86	V	J
SPP/W.CENT.	TX	SOEP	KNOX LEE 1	ST	-36	NG	12/86	R	
ERCOT	TX	HL&P	LIMESTONE 2	ST	720	LIG	12/86	V	
SPP/S.EAST	MS	MSUI	NATCHEZ 1	ST	-73	NG	12/86	R	
WSCC/CA-SNV	CA	PG&E	NEWCASTLE	HY	0	WAT	12/86	T	
SPP/S.EAST	LA	MSUI	NINEMILE 1	ST	-70	NG	12/86	R	
ERCOT	TX	WETU	OKLAUNION 1	ST	640[g]	SUB	12/86	V	J
WSCC/CA-SNV	CA	PG&E	QF WIND 86	WM	9	WND	12/86	P	

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
LISTING OF GENERATING UNIT ADDITIONS AND RETIREMENTS

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED DATE	CONSTRUCTION STATUS	JOINTLY OWNED
ERCOT	TX	AUST	REFUSE 1	ST	12	REF	12/86	L	
SPP/S.EAST	MS	MSUI	REX BROWN 3	ST	-69	NG	12/86	R	
NPCC/NE	VT	VTGP	RUTLAND SOLID WASTE	ST	7	REF	12/86	T	
WSCC/CA-SNV	CA	PG&E	SMALL QF HYDRO 86	HY	6	WAT	12/86	P	
NPCC/NE	CT	NOEU	TORRINGTON TERMINAL	JE	-17	FO1	12/86	R	
NPCC/NE	CT	NOEU	TUNNEL JET 10	JE	-17	FO1	12/86	R	
WSCC/CA-SNV	CA	PG&E	WISE UNIT 2	HY	3	WAT	12/86	L	
WSCC/CA-SNV	CA	SCE	BIOMASS	ST	5	REF	01/87	T	
NPCC/ONT	ON	ONHY	BRUCE 8	CD	784	UR	01/87	V	
WSCC/CA-SNV	CA	SCE	CENTRAL PLANTS	IC	1	ZZ	01/87	T	
WSCC/CA-SNV	CA	SCE	CHINA LAKE JOINT	GE	23	GST	01/87	T	
WSCC/CA-SNV	CA	SCE	CHIQUITA CANYON	IC	0	ZZ	01/87	T	
WSCC/CA-SNV	CA	PG&E	CHRISTIAN VALLEY	HY	1	WAT	01/87	L	
WSCC/CA-SNV	CA	SCE	COMPTON ENERGY SYS	ST	43	REF	01/87	L	
WSCC/AZ-NM	NM	LAS	EL VADO DAM	HY	6	WAT	01/87	P	
WSCC/CA-SNV	CA	SCE	ETIWANDA 1	ST	-132	FO4	01/87	R	
WSCC/CA-SNV	CA	SCE	ETIWANDA 2	ST	-132	FO4	01/87	R	
WSCC/CA-SNV	CA	PG&E	FIDDLER GREEN	HY	0	WAT	01/87	L	
WSCC/CA-SNV	CA	SCE	GENERIC COGEN	CG	35	UNK	01/87	P	
WSCC/CA-SNV	CA	SCE	GENERIC HYDRO	HY	3	WAT	01/87	P	
NPCC/NE	VT	VTGP	HIGHGATE FALLS	HY	3	WAT	01/87	P	
WSCC/RMPA	CO	USUC	MCPHEE POWER PLANT	HY	1	WAT	01/87	P	
WSCC/CA-SNV	CA	PG&E	MOSS LANDING GAS EXPANDER	CG	6	NG	01/87	P	
WSCC/CA-SNV	CA	SCE	PENROSE LANDFILL	IC	3	ZZ	01/87	T	
SERC/SOU	GA	GEPC	SCHERER 3	ST	808	BIT	01/87	V	J
WSCC/CA-SNV	CA	PG&E	SLD WSTE RECOVERY SF	CG	40	REF	01/87	P	
ECAR	**[a]	CP	SMALL POWER PRODUCERS	UN	50	UNK	01/87	P	
WSCC/CA-SNV	CA	SDGE	STATION B	CG	-1	FO2	01/87	R	
WSCC/CA-SNV	CA	SCE	TOYON LANDFILL	IC	3	ZZ	01/87	T	
WSCC/NWPP	OR	PGE	TRANS ENERGY	CG	15	REF	01/87	P	
WSCC/AZ-NM	NM	LAS	ABIQUIU 1	HY	6	WAT	02/87	P	
WSCC/AZ-NM	NM	LAS	ABIQUIU 2	HY	5	WAT	02/87	P	
WSCC/CA-SNV	CA	PG&E	EMIGRANT GAP	HY	0	WAT	02/87	L	
WSCC/CA-SNV	CA	CDWR	THERMALITO DIV. DAM	HY	3	WAT	02/87	U	
ERCOT	TX	TUEC	ALTERNATE SOURCE	UN	5	UNK	03/87	X[d]	
ERCOT	TX	TUEC	COGENERATION	CG	100	UNK	03/87	X[c]	
MAIN/WIUM	WI	WPS	HYDRO	HY	1	WAT	03/87	P	
SERC/SOU	GA	GEPC	VOGTLE 1	NP	1150	UR	03/87	U	J
ECAR	PA	APS	AES COGENERATION	ST	100	COL	04/87	T	
WSCC/RMPA	CO	PSC	BIO - GAS NO. 2	ZZ	3	ZZ	04/87	P	
WSCC/RMPA	CO	PSC	BLUE RIVER	HY	1	WAT	04/87	P	
WSCC/AZ-NM	NM	FARM	NAVAJO DAM	HY	30	WAT	04/87	P	
WSCC/RMPA	CO	PSC	NORTH FORK HYDRO	HY	6	WAT	04/87	P	
WSCC/RMPA	CO	PSC	SMALL HYDRO	HY	10	WAT	04/87	P	
SERC/FLA	FL	JACO	ST. JOHNS 1	ST	550	BIT	04/87	U	J
NPCC/NE	VT	VTGP	HUNTINGTON FALLS	HY	1	WAT	05/87	L	
MAPP-U.S.	MN	NSP	RIVERSIDE 7	ST	51	COL	05/87	T	
SPP/NORTH	KS	EMDE	RIVERTON 3	ST	-11	NG	05/87	R	
SPP/NORTH	KS	EMDE	RIVERTON 4	ST	-9	NG	05/87	R	
WSCC/CA-SNV	CA	SNCL	BLACK BUTTE DAM	HY	6	WAT	06/87	T	
WSCC/NWPP	UT	UPLC	BLUNDELL 2	GE	14	GST	06/87	P	
WSCC/CA-SNV	CA	PG&E	COGENERATION	CG	120	UNK	06/87	P	
ERCOT	TX	HL&P	COGENERATION/OTHER	CG	75	UNK	06/87	X[b]	
WSCC/CA-SNV	CA	PG&E	CPL	CG	50	ZZ	06/87	P	

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
LISTING OF GENERATING UNIT ADDITIONS AND RETIREMENTS

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED DATE	CONSTRUCTION STATUS	JOINTLY OWNED
WSCC/AZ-NM	AZ	APS	PALO VERDE 3	NP	1270	UR	06/87	V	J
SPP/S.EAST	LA	LAFA	RODEMACHER 2	ST	-57	BIT	06/87	R	
WSCC/CA-SNV	CA	SCE	SALTON SEA 1	GE	9	GST	06/87	V	
MAIN/WIUM	**[a]	WEP	SMALL UNITS	UN	10	UNK	06/87	P	
ERCOT	TX	HL&P	SOUTH TEXAS PROJECT 1	NP	1250	UR	06/87	V	J
WSCC/CA-SNV	NV	SCE	SUN GEOTHERMAL	GE	10	GST	06/87	U	
ERCOT	TX	TUEC	COMANCHE PEAK 2	NP	1150	UR	07/87	V	J
WSCC/CA-SNV	CA	SCE	COMBINED WIND	WM	14	WND	07/87	P	
WSCC/CA-SNV	UT	LDWP	INTERMOUNTAIN 2	ST	761	BIT	07/87	U	J
WSCC/CA-SNV	CA	SCE	ORMAT TURB. LTD	SO	24	SUN	07/87	T	
WSCC-CAN.	AL	TAUC	SHEERNESS 2	ST	366	SUB	07/87	U	J
SERC/FLA	FL	ORLA	STANTON 1	ST	415	BIT	07/87	U	J
WSCC/CA-SNV	CA	PG&E	DOAKS RIDGE	HY	1	WAT	08/87	L	
NPCC/NE	MA	HOGE	CABOT 9	ST	-5	FO6	10/87	R	
WSCC/CA-SNV	CA	PG&E	SOLID WASTE	ZZ	70	REF	10/87	P	
MAPP-U.S.	MN	SMMP	AUSTIN DOWNTOWN 1	ST	-6	FO6	11/87	R	
MAPP-U.S.	MN	SMMP	AUSTIN DOWNTOWN 3	ST	-9	FO6	11/87	R	
MAPP-U.S.	MN	SMMP	AUSTIN DOWNTOWN 4	ST	-12	FO6	11/87	R	
MAPP-U.S.	MN	SMMP	AUSTIN DOWNTOWN 5	GT	-5	FO1	11/87	R	
NPCC/NE	VT	VTGP	BELDEN	HY	1	WAT	11/87	L	
MAPP-U.S.	MN	SMMP	BLOOMING PRAIRIE 1	IC	-1	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	BLOOMING PRAIRIE 2	IC	-1	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	FAIRMONT 6	IC	-6	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	FAIRMONT 7	IC	-6	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	GRAND MARAIS 2	IC	-1	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	GRAND MARAIS 5	IC	-1	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	GRAND MARAIS 6	IC	-1	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	LITCHFIELD 5	IC	-2	NG	11/87	R	
MAPP-U.S.	MN	SMMP	LITCHFIELD 6	IC	-2	NG	11/87	R	
NPCC/NE	NH	CEMP	MASON 1	ST	-21	FO6	11/87	R	
MAPP-U.S.	MN	SMMP	MORA 2	IC	-1	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	MORA 5	IC	-6	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	MORA 6	IC	-7	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	NEW PRAGUE 2	IC	-5	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	NEW PRAGUE 3	IC	-2	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	NEW PRAGUE 4	IC	-4	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	NEW PRAGUE 6	IC	-6	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	NORTH BRANCH 1	IC	-1	NG	11/87	R	
MAPP-U.S.	MN	SMMP	NORTH BRANCH 2	IC	-1	NG	11/87	R	
MAPP-U.S.	MN	SMMP	OWATONNA DOWNTOWN 5	ST	-9	FO6	11/87	R	
MAPP-U.S.	MN	SMMP	OWATONNA DOWNTOWN 6	ST	-20	FO6	11/87	R	
MAPP-U.S.	MN	SMMP	OWATONNA WEST SUB 7	GT	-17	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	PRESTON 5	IC	-1	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	PRESTON 6	IC	-2	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	PRINCETON 3	IC	-2	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	PRINCETON 4	IC	-1	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	PRINCETON 5	IC	-1	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	PRINCETON 6	IC	-3	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	REDWOOD FALLS DWNTWN 2	IC	-6	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	REDWOOD FALLS SE 1	IC	-2	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	ROCHESTER CASCADE CR 7	GT	-27	FO2	11/87	R	
WSCC/CA-SNV	CA	SCE	SMALL HYDRO	HY	6	WAT	11/87	T	
MAPP-U.S.	MN	SMMP	SPRING VALLEY 2	IC	-1	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	SPRING VALLEY 3	IC	-2	FO2	11/87	R	

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
LISTING OF GENERATING UNIT ADDITIONS AND RETIREMENTS

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED DATE	CONSTRUCTION STATUS	JOINTLY OWNED
MAPP-U.S.	MN	SMMP	SPRING VALLEY 4	IC	-4	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	WELLS 1	IC	-1	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	WELLS 2	IC	-2	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	WELLS 4	IC	-2	FO2	11/87	R	
MAPP-U.S.	MN	SMMP	WELLS 5	IC	-2	FO2	11/87	R	
MAPP-U.S.	WI	NSP	ATHENS 1	IC	-1	FO2	12/87	R	
MAPP-U.S.	WI	NSP	ATHENS 2	IC	-1	FO2	12/87	R	
ECAR	PA	CAPC	BEAVER VALLEY 2	NP	820	UR	12/87	V	J
MAIN/CE	IL	CECO	BRAIDWOOD 2	NP	1090	UR	12/87	V	
NPCC/NE	CT	NOEU	DEVON 4	ST	-50	FO6	12/87	R	
NPCC/NE	CT	NOEU	DEVON 5	ST	-48	FO6	12/87	R	
MAPP-CAN.	SA	SPC	FUTURE GT 1	GT	50	NG	12/87	P	
SPP/W.CENT.	OK	PSOK	HOLLIS DIESEL	IC	-4	FO2	12/87	R	
WSCC/CA-SNV	CA	PG&E	QF WIND 87	WM	10	WND	12/87	P	
WSCC/CA-SNV	CA	PG&E	SMALL QF HYDRO 87	HY	1	WAT	12/87	P	
SERC/VACAR	SC	DUPC	CATAWBA 2	NP	1145	UR	**/87 [f]	V	
MAIN/WIUM	WI	KAUK	COMBINED LOCKS	HY	6	WAT	**/87 [f]	P	
WSCC/CA-SNV	CA	PG&E	ACC FAC 1	CG	-1	CRU	01/88	R	
WSCC/CA-SNV	CA	PG&E	ACC FAC 2	CG	-6	CRU	01/88	R	
WSCC/CA-SNV	CA	SCE	BALSAM MEADOW HYDRO	HY	200	WAT	01/88	U	
SERC/SOU	AL	ALAP	BARRY A-B	CT	-45	OIL	01/88	R	
WSCC/CA-SNV	CA	SCE	BIOMASS	ST	40	REF	01/88	T	
WSCC/CA-SNV	CA	SMUD	CCPA 1	GE	122	GST	01/88	L	J
WSCC/CA-SNV	CA	SCE	CENTRAL PLANTS	IC	1	ZZ	01/88	T	
WSCC/CA-SNV	CA	SCE	CHIQUITA CANYON	IC	1	ZZ	01/88	T	
WSCC/CA-SNV	CA	TID	DON PEDRO UNIT 4	HY	28	WAT	01/88	P	J
WSCC/CA-SNV	CA	SCE	GENERIC COGEN	CG	35	ZZ	01/88	P	
WSCC/CA-SNV	CA	PG&E	GENERIC COGENERATION 1	CG	38	UNK	01/88	P	
WSCC/CA-SNV	CA	PG&E	GENERIC COGENERATION 2	CG	38	UNK	01/88	P	
WSCC/CA-SNV	CA	SCE	GENERIC GEOTHERMAL	GE	25	GST	01/88	P	
WSCC/CA-SNV	CA	SCE	GENERIC HYDRO	HY	4	WAT	01/88	P	
NPCC/NY	NY	NIMP	H.E.A.R.	HY	19	WAT	01/88	P	
WSCC/CA-SNV	CA	MID	LA GRANGE HYDRO	HY	0	WAT	01/88	P	
WSCC/CA-SNV	CA	PG&E	MOKELUMNE IMPROVEMENTS	HY	0	WAT	01/88	L	
NPCC/NY	NY	POAS	PASNY NEW HYDRO	HY	3	WAT	01/88	P	
WSCC/CA-SNV	CA	SCE	PENROSE LANDFILL	IC	3	ZZ	01/88	T	
WSCC/CA-SNV	CA	SCE	REDONDO BEACH 5	ST	-175	FO4	01/88	R	
WSCC/CA-SNV	CA	SCE	REDONDO BEACH 6	ST	-175	FO4	01/88	R	
WSCC/AZ-NM	NM	EPE	RIO GRANDE 3	ST	-19	NG	01/88	R	
WSCC/AZ-NM	NM	EPE	RIO GRANDE 4	ST	-34	NG	01/88	R	
WSCC/AZ-NM	NM	EPE	RIO GRANDE 5	ST	-34	NG	01/88	R	
MAPP-U.S.	MN	NSP	SHERBURNE CO 3	ST	800	SUB	01/88	L	J
WSCC/CA-SNV	CA	MWD	SKINNER 1	HY	1	WAT	01/88	T	
ECAR	** [a]	CP	SMALL POWER PRODUCERS	UN	20	UNK	01/88	P	
WSCC/CA-SNV	CA	SCE	TOYON LANDFILL	IC	3	ZZ	01/88	T	
WSCC/CA-SNV	CA	PG&E	UNID. PG&E SMALL HYDRO 88	HY	3	WAT	01/88	P	
WSCC/CA-SNV	CA	SMUD	UNIDENTIFIED PEAKING	ZZ	50	UNK	01/88	P	
WSCC/CA-SNV	CA	SMUD	UNIDENTIFIED PEAKING	ZZ	50	UNK	01/88	P	
WSCC/CA-SNV	CA	PG&E	WEST POINT 2	HY	7	WAT	01/88	L	
WSCC/CA-SNV	CA	PG&E	MOKELUMNE	HY	1	WAT	02/88	L	
WSCC/CA-SNV	CA	PG&E	SALT SPRINGS 3	HY	6	WAT	02/88	L	
ERCOT	TX	TUEC	ALTERNATE SOURCE	UN	5	UNK	03/88	X [d]	
MAIN/WIUM	WI	WPS	COGENERATION PLANT	ST	12	COL	03/88	P	
ERCOT	TX	TUEC	COMBUSTION TURBINE	GT	190	FO2	03/88	L	

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
LISTING OF GENERATING UNIT ADDITIONS AND RETIREMENTS

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED DATE	CONSTRUCTION STATUS	JOINTLY OWNED
NPCC/NY	NY	POAS	PASNY NEW HYDRO	HY	3	WAT	03/88	P	
MAAC	PA	ALEC	RAYSTOWN 1,2,3	HY	2	WAT	03/88	T	
NPCC/NE	ME	CEMP	CATARACT	HY	3	WAT	04/88	P	
WSCC/NWPP	ID	SCL	LUCKY PEAK	HY	100	WAT	04/88	U	
WSCC/RMPA	CO	PSC	SMALL HYDRO	HY	1	WAT	04/88	P	
SERC/TVA	TN	TEVA	WATTS BAR 2	NP	1170	UR	04/88	V	
NPCC/ONT	ON	ONHY	DARLINGTON 2	CD	881	UR	05/88	U	
MAAC	MD	DPLC	EASTON 3	IC	-1	FO2	05/88	R	
MAAC	MD	DPLC	EASTON 4	IC	-1	FO2	05/88	R	
MAAC	MD	DPLC	EASTON 5	IC	-1	FO2	05/88	R	
WSCC/CA-SNV	CA	SDGE	HEBER	GE	45	GST	05/88	V	J
MAPP-U.S.	WI	NSP	JIM FALLS 4	HY	1	WAT	05/88	L	
WSCC/CA-SNV	CA	RDNG	LAKE RED BLUFF	HY	4	WAT	05/88	L	
NPCC/NY	NY	LOIL	MITCHELL GARDENS 1 & 2	ST	32	REF	05/88	U	
SERC/FLA	FL	TALL	SAM O. PURDOM 1	ST	-7	FO6	05/88	R	
SERC/FLA	FL	TALL	SAM O. PURDOM 2	ST	-7	FO6	05/88	R	
SERC/FLA	FL	TALL	SAM O. PURDOM 3	ST	-7	FO6	05/88	R	
SERC/FLA	FL	TALL	SAM O. PURDOM 4	ST	-7	FO6	05/88	R	
SPP/NORTH	MO	MIPU	UNKNOWN	GT	44	NG	05/88	P	
ERCOT	TX	TUEC	COGENERATION	CG	100	UNK	06/88	X[c]	
ERCOT	TX	HL&P	COGENERATION/OTHER	CG	225	UNK	06/88	X[b]	
SPP/NORTH	MO	EMDE	ENERGY CENTER NO. 3	CA	75	NG	06/88	P	
ERCOT	TX	LCRA	F.P.P. 3	ST	400	LIG	06/88	U	
WSCC-CAN.	AL	EDMP	GENESEE 2	ST	386	SUB	06/88	U	
NPCC/NY	NY	NIMP	H.E.A.R.	HY	4	WAT	06/88	P	
NPCC/NE	NH	PSNH	MURPHY DAM	HY	2	WAT	06/88	P	
MAIN/WIUM	WI	WPL	NEW CO-GEN. 1	UN	5	UNK	06/88	P	
WSCC/CA-SNV	CA	PG&E	YELLOW CREEK DIV PRO	HY	0	WAT	06/88	L	
WSCC/CA-SNV	CA	SCE	COMBINED WIND	WM	16	WND	07/88	P	
ECAR	KY	LG&E	TRIMBLE COUNTY 1	ST	495	COL	07/88	U	
WSCC/NWPP	OR	USCE	BONNEVILLE FW SITE 3	HY	2	WAT	09/88	T	
WSCC/NWPP	OR	USCE	BONNEVILLE FW SITE 4	HY	3	WAT	09/88	T	
WSCC/NWPP	WA	USCE	BONNEVILLE FW SITE 6	HY	3	WAT	09/88	T	
WSCC/CA-SNV	CA	PG&E	GEYSERS 21	GE	140	GST	09/88	L	
SERC/SOU	GA	GEPC	VOGTLE 2	NP	1150	UR	09/88	U	J
SERC/FLA	FL	JACO	ST. JOHNS 2	ST	550	BIT	10/88	U	J
MAPP-U.S.	MN	MPL	BLANCHARD 3	HY	6	WAT	11/88	P	
NPCC/NE	ME	BAHE	PENOBSCOT RIVER 2	HY	0	WAT	11/88	P	
MAPP-U.S.	MN	SMMP	ROCHESTER SILVER LK 2	ST	-13	BIT	11/88	R	
NPCC/NE	NH	PSNH	SCHILLER 3	ST	-27	FO6	11/88	R	
MAAC	PA	PECO	DELAWARE 7	ST	-126	FO6	12/88	R	
MAAC	PA	PECO	DELAWARE 8	ST	-124	FO6	12/88	R	
MAAC	PA	PECO	DELAWARE D	IC	-3	FO2	12/88	R	
SPP/S.EAST	MS	MSUI	DELTA 1	ST	-95	NG	12/88	R	
SPP/S.EAST	MS	MSUI	DELTA 2	ST	-95	NG	12/88	R	
MAPP-CAN.	SA	SPC	FUTURE GT 2	GT	100	NG	12/88	P	
ERCOT	TX	AUST	GAS TURBINE 2	GT	100	NG	12/88	P	
WSCC/CA-SNV	CA	PG&E	GENERIC WIND 88	WM	3	WND	12/88	P	
WSCC/CA-SNV	CA	PG&E	GRIZZLY	HY	18	WAT	12/88	L	
SPP/S.EAST	AR	MSUI	LAKE CATHERINE 3	ST	-90	NG	12/88	R	
SPP/S.EAST	LA	MSUI	NINEMILE 2	ST	-90	NG	12/88	R	
WSCC/CA-SNV	CA	RDNG	NORTH FORK	HY	0	WAT	12/88	L	
WSCC/CA-SNV	CA	PG&E	QF WIND 88	WM	8	WND	12/88	P	
ECAR	IN	AEP	ROCKPORT 2	ST	1300	COL	12/88	U	

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
LISTING OF GENERATING UNIT ADDITIONS AND RETIREMENTS

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED DATE	CONSTRUCTION STATUS	JOINTLY OWNED
MAAC	PA	PECO	SCHUYLKILL 3	ST	-12	FO6	12/88	R	
WSCC/CA-SNV	CA	PG&E	SMALL QF HYDRO 88	HY	1	WAT	12/88	P	
SERC/SOU	GA	GEPC	ATKINSON 1	ST	-54	FO2	01/89	R	
WSCC/CA-SNV	CA	SCE	BIOMASS CENTRAL PLANT	IC	1	ZZ	01/89	T	
WSCC/CA-SNV	CA	SCE	COMBINED WIND	WM	15	WND	01/89	P	
ERCOT	TX	TUEC	DALLAS 3	ST	-75	NG	01/89	R	
ERCOT	TX	TUEC	DALLAS 9	ST	-70	NG	01/89	R	
WSCC/CA-SNV	CA	SCE	GENERIC BIOMASS	IC	14	UNK	01/89	P	
WSCC/CA-SNV	CA	PG&E	GENERIC COGENERATION 3	CG	38	UNK	01/89	P	
WSCC/CA-SNV	CA	PG&E	GENERIC COGENERATION 4	CG	38	UNK	01/89	P	
WSCC/CA-SNV	CA	PG&E	GENERIC SOLAR 89	SO	15	SUN	01/89	P	
WSCC/CA-SNV	CA	SCE	GEOTHERMAL	GE	25	GST	01/89	P	
NPCC/NY	NY	NIMP	H.E.A.R.	HY	2	WAT	01/89	P	
WSCC/CA-SNV	CA	SCE	KERN RIVER PHASE 2	CG	300	NG	01/89	P	
WSCC/CA-SNV	CA	MID	MODESTO RESERVOIR	HY	1	WAT	01/89	P	
WSCC/CA-SNV	CA	PG&E	OWID: ROCK CREEK II	HY	30	WAT	01/89	L	
WSCC/CA-SNV	CA	PG&E	PROJ C	HY	3	WAT	01/89	P	
WSCC/CA-SNV	CA	SCE	SAN BERNARDINO 1	ST	-63	FO4	01/89	R	
WSCC/CA-SNV	CA	SCE	SAN BERNARDINO 2	ST	-63	FO4	01/89	R	
WSCC/CA-SNV	CA	SCE	SMALL COGENERATION	CG	35	UNK	01/89	P	
WSCC/CA-SNV	CA	SCE	SMALL HYDRO	HY	3	WAT	01/89	P	
WSCC/CA-SNV	CA	PG&E	SMALL HYDRO PROJ N	HY	2	WAT	01/89	P	
ECAR	OH	CP	SMALL POWER PRODUCERS	UN	20	UNK	01/89	P	
WSCC/CA-SNV	CA	PG&E	SOFAR	HY	110	WAT	01/89	P	
WSCC/CA-SNV	CA	PG&E	UNID. PG&E SMALL HYDRO 89	HY	3	WAT	01/89	P	
WSCC/CA-SNV	CA	SMUD	UNIDENTIFIED BASE	ZZ	60	UNK	01/89	P	
NPCC/ONT	ON	ONHY	DARLINGTON 1	CD	881	UR	02/89	U	
WSCC-CAN.	AL	EDMP	GENESEE 1	ST	386	SUB	02/89	U	
SERC/SOU	GA	GEPC	SCHERER 4	ST	808	BIT	02/89	U	J
WSCC/CA-SNV	CA	PG&E	UNID. GAS/OIL RETIREMENT	ST	-74	NG	02/89	R	
WSCC/CA-SNV	CA	PG&E	UNID. GAS/OIL RETIREMENT	ST	-106	NG	02/89	R	
ERCOT	TX	TUEC	ALTERNATE SOURCE	UN	5	UNK	03/89	X[d]	
WSCC/CA-SNV	CA	PG&E	CHAMBERS/JACKASS DIV	HY	0	WAT	03/89	L	
ERCOT	TX	TUEC	COGENERATION	CG	400	UNK	03/89	X[c]	
WSCC/CA-SNV	CA	PG&E	CRESTA PH UNIT 3	HY	18	WAT	03/89	L	
WSCC/CA-SNV	CA	PG&E	ROCK CREEK UNIT 3	HY	36	WAT	03/89	L	
SERC/TVA	AL	TEVA	BELLEFONTE 1	NP	1212	UR	04/89	V	
ECAR	OH	BMLW	BRYAN 2	IC	-3	FO2	04/89	R	
NPCC/NE	ME	CEMD	LEWISTON	HY	25	WAT	04/89	P	
ERCOT	TX	CPSA	MSW-LCP	ST	33	REF	04/89	P	
WSCC/RMPA	CO	PSC	SMALL HYDRO	HY	2	WAT	04/89	P	
MAAC	MD	DPLC	EASTON UNIDENTIFIED CT	IC	6	FO2	05/89	P	
WSCC/CA-SNV	CA	RDNG	LAKE REDDING	HY	8	WAT	05/89	L	
SERC/SOU	AL	ALAP	MILLER 3	ST	666	BIT	05/89	V	
SPP/W.CENT.	OK	OKGE	UNKNOWN 1	GT	100	FO2	05/89	P	
WSCC/NWPP	UT	UPLC	BLUNDELL 3	GE	14	GST	06/89	P	
ERCOT	TX	HL&P	COGENERATION/OTHER	CG	175	UNK	06/89	X[b]	
NPCC/QUE	QB	HYQB	MANIC 5, UNIT 1	HY	245	WAT	06/89	U	
NPCC/NY	NY	POAS	PASNY NEW HYDRO	HY	12	WAT	06/89	P	
MAIN/WIUM	**[a]	WEP	SMALL UNITS	UN	10	REF	06/89	P	
ERCOT	TX	HL&P	SOUTH TEXAS PROJECT 2	NP	1250	UR	06/89	U	J
WSCC/AZ-NM	AZ	TEP	SPRINGERVILLE 2	ST	330	SUB	06/89	U	
NPCC/QUE	QB	HYQB	MANIC 5, UNIT 2	HY	245	WAT	08/89	U	
WSCC/CA-SNV	CA	NCPA	CALAVERAS HYDRO PROJ.	HY	200	WAT	09/89	T	

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
LISTING OF GENERATING UNIT ADDITIONS AND RETIREMENTS

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED DATE	CONSTRUCTION STATUS	JOINTLY OWNED
WSCC/CA-SNV	CA	PG&E	PH AT CRESTA DAM	HY	0	WAT	09/89	L	
WSCC/CA-SNV	CA	PG&E	PH AT ROCK CREEK DAM	HY	1	WAT	09/89	L	
NPCC/QUE	QB	HYQB	MANIC 5, UNIT 3	HY	245	WAT	10/89	U	
SERC/SOU	GA	SEPA	RICHARD B. RUSSELL 5	PS	75	WAT	10/89	U	J
WSCC-CAN.	AL	EDMP	ROSSDALE 6	GT	-22	NG	10/89	R	
WSCC-CAN.	AL	EDMP	ROSSDALE 7	GT	-22	NG	10/89	R	
WSCC/RMPA	CO	USUC	TOWAOC	HY	11	WAT	10/89	P	
MAPP-U.S.	ND	MDU	DAKOTA 3	ST	-8	LIG	11/89	R	
MAPP-U.S.	ND	MDU	ELLENDALE 1	IC	-1	FO2	11/89	R	
MAPP-U.S.	ND	MDU	ELLENDALE 2	IC	-1	FO2	11/89	R	
MAPP-U.S.	ND	MDU	KNIFE RIVER 1	ST	-2	LIG	11/89	R	
MAPP-U.S.	ND	MDU	KNIFE RIVER 2	ST	-4	LIG	11/89	R	
NPCC/QUE	QB	HYQB	MANIC 5, UNIT 4	HY	245	WAT	11/89	U	
MAPP-U.S.	SD	MDU	MOBRIDGE 1	IC	-1	FO2	11/89	R	
MAPP-U.S.	SD	MDU	MOBRIDGE 2	IC	-1	FO2	11/89	R	
NPCC/NE	ME	BAHE	PENOBSCOT RIVER 3	HY	4	WAT	11/89	P	
SPP/S.EAST	LA	MSUI	A. B. PATERSON #4	ST	-80	NG	12/89	R	
SPP/S.EAST	AR	MSUI	CECIL LYNCH 3	ST	-130	NG	12/89	R	
MAPP-CAN.	SA	SPC	FUTURE GT 3	GT	100	NG	12/89	P	
ERCOT	TX	AUST	GAS TURBINE 3	GT	100	NG	12/89	P	
WSCC/CA-SNV	CA	PG&E	GENERIC WIND 89	WM	3	WND	12/89	P	
SPP/S.EAST	AR	MSUI	H. COUCH 2	ST	-122	NG	12/89	R	
WSCC/CA-SNV	CA	PG&E	QF WIND 89	WM	9	WND	12/89	P	
WSCC/RMPA	CO	USUC	RIDGEWAY POWER PLANT	HY	4	WAT	12/89	P	
WSCC/CA-SNV	CA	SCE	SALMON CREEK	HY	2	WAT	12/89	P	
WSCC/CA-SNV	CA	PG&E	SMALL QF HYDRO 89	HY	1	WAT	12/89	P	
SERC/SOU	GA	GEPC	ATKINSON 2	ST	-62	FO2	01/90	R	
WSCC/CA-SNV	CA	PASA	BROADWAY 1	ST	-45	NG	01/90	R	
WSCC/RMPA	WY	USLM	BUFFALO BILL	HY	14	WAT	01/90	T	
WSCC/CA-SNV	CA	SCE	CENTRAL PLANTS	IC	1	ZZ	01/90	T	
NPCC/ONT	ON	ONHY	COGENERATION	CG	20	UNK	01/90	P	
WSCC/CA-SNV	CA	SCE	COMBINED WIND	WM	3	WND	01/90	P	
MAIN/WIUM	WI	WEP	COMMERCE	ST	-31	NG	01/90	R	
WSCC/CA-SNV	CA	SCE	GENERIC BIOMASS	IC	15	UNK	01/90	P	
WSCC/CA-SNV	CA	PG&E	GENERIC COGENERATION 5	CG	38	UNK	01/90	P	
WSCC/CA-SNV	CA	PG&E	GENERIC COGENERATION 6	CG	38	UNK	01/90	P	
WSCC/CA-SNV	CA	PG&E	GENERIC SOLAR 90	SO	15	SUN	01/90	P	
WSCC/CA-SNV	CA	PG&E	GENERIC WIND 90	WM	9	WND	01/90	P	
SERC/SOU	AL	ALAP	GORGAS 5	ST	-60	BIT	01/90	R	
NPCC/NY	NY	NIMP	H.E.A.R.	HY	13	WAT	01/90	P	
ERCOT	TX	TUEC	MOUNTAIN CREEK 6	ST	-115	NG	01/90	R	
WSCC/CA-SNV	CA	SCE	NPN PARTNERSHIP	GE	24	GST	01/90	P	
WSCC/CA-SNV	CA	SCE	OIL FIELD COGEN	CG	250	UNK	01/90	P	
SERC/VACAR	GA	SEPA	RICHARD B. RUSSELL 6	PS	75	WAT	01/90	U	J
WSCC/CA-SNV	CA	SCE	SMALL COGENERATION	CG	35	UNK	01/90	P	
WSCC/CA-SNV	CA	SCE	SMALL HYDRO	HY	1	WAT	01/90	P	
WSCC/CA-SNV	CA	PG&E	SMALL HYDRO PROJ L	HY	14	WAT	01/90	P	
ECAR	**[a]	CP	SMALL POWER PRODUCERS	UN	20	UNK	01/90	P	
WSCC/CA-SNV	CA	PG&E	UNID. PG&E SMALL HYDRO 90	HY	3	WAT	01/90	P	
ERCOT	TX	TUEC	ALTERNATE SOURCE	UN	10	UNK	03/90	X[d]	
ERCOT	TX	TUEC	COMBUSTION TURBINE	GT	770	FO2	03/90	L	
SPP/NORTH	MO	STJO	EDMOND ST. 4	ST	-19	GAS	03/90	R	
SPP/NORTH	MO	STJO	EDMOND ST. 7	ST	-16	GAS	03/90	R	
MAIN/WIUM	WI	WPS	WOOD/SOLID WASTE	ST	10	REF	03/90	P	

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
LISTING OF GENERATING UNIT ADDITIONS AND RETIREMENTS

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED DATE	CONSTRUCTION STATUS	JOINTLY OWNED
ECAR	IN	SIGE	BROADWAY 3	GT	70	NG	04/90	P	
NPCC/NE	VT	VTGP	C. RUTLAND	HY	0	WAT	04/90	P	
WSCC/RMPA	CO	PSC	COGENERATION	CG	7	NG	04/90	P	
ERCOT	TX	HL&P	MALAKOFF 1	ST	645	LIG	04/90	P	
SERC/SOU	GA	SEPA	RICHARD B. RUSSELL 7	PS	75	WAT	04/90	U	J
SERC/FLA	FL	TALL	SAM O. PURDOM 5	ST	-22	FO6	04/90	R	
WSCC/NWPP	WA	SCL	SOUTH FORK TOLT	HY	15	WAT	04/90	L	
NPCC/NY	NY	ROGE	BEEBEE 3,6,8-11	ST	-46	FO6	05/90	R	
MAAC	MD	DPLC	EASTON 6	IC	-1	FO2	05/90	R	
SPP/NORTH	MO	STJO	LAKE ROAD 6	GT	40	FO2	05/90	P	
SERC/VACAR	**[8]	SOCG	UNDETERMINED	CW	108	FO2	05/90	P	
SPP/W.CENT.	OK	OKGE	UNKNOWN 2	GT	240	FO2	05/90	P	
MAPP-U.S.	ND	MDU	WILLISTON GT 4	GT	30	NG	05/90	L	
SERC/SOU	FL	GUPC	CRIST 1-3	ST	-81	NG	06/90	R	
NPCC/NY	NY	NIMP	H.E.A.R.	HY	12	WAT	06/90	P	
SPP/S.EAST	LA	LAFA	NATCHITOCHES 10	ST	-26	NG	06/90	R	
SPP/S.EAST	LA	LAFA	NATCHITOCHES 2	IC	-2	NG	06/90	R	
SPP/S.EAST	LA	LAFA	NATCHITOCHES 3	IC	-2	NG	06/90	R	
SPP/S.EAST	LA	LAFA	NATCHITOCHES 4	IC	-1	NG	06/90	R	
SPP/S.EAST	LA	LAFA	NATCHITOCHES 5	IC	-1	NG	06/90	R	
SPP/S.EAST	LA	LAFA	NATCHITOCHES 6	IC	-3	NG	06/90	R	
SPP/S.EAST	LA	LAFA	NATCHITOCHES 7	IC	-3	NG	06/90	R	
SPP/S.EAST	LA	LAFA	NATCHITOCHES 8	ST	-6	NG	06/90	R	
SPP/S.EAST	LA	LAFA	NATCHITOCHES 9	ST	-13	NG	06/90	R	
SPP/S.EAST	LA	LAFA	PLAQUEMINE 1	ST	-20	NG	06/90	R	
SPP/S.EAST	LA	LAFA	PLAQUEMINE 2	ST	-23	NG	06/90	R	
SERC/SOU	FL	GUPC	SCHOLZ 1-2	ST	-93	BIT	06/90	R	
MAIN/WIUM	**[8]	WEP	SMALL UNITS	UN	10	UNK	06/90	P	
SPP/W.CENT.	TX	SWPS	SO. PLAINS STATION 1	ST	532	SUB	06/90	T	
WSCC/NWPP	OR	USCE	STRUBE UNIT 1	HY	5	WAT	06/90	T	
WSCC/NWPP	OR	USCE	COUGAR UNIT 3	HY	40	WAT	07/90	T	
MAAC	PA	PECO	LIMERICK 2	NB	1055	UR	07/90	U	
WSCC/RMPA	CO	SCPC	PUEBLO 1	ST	-8	NG	07/90	R	
SERC/VACAR	GA	SEPA	RICHARD B. RUSSELL 8	PS	75	WAT	07/90	U	J
WSCC/CA-SNV	CA	LDWP	SMALL HYDRO DEV	HY	7	WAT	07/90	P	
WSCC/CA-SNV	CA	SCE	SMALL HYDRO	HY	5	WAT	08/90	U	
NPCC/NE	ME	CEMP	WILLIAMS	HY	1	WAT	09/90	P	
WSCC-CAN.	BC	BCHA	BOSTON BAR DIESEL	IC	-1	FO2	10/90	R	
WSCC-CAN.	AL	APL	FORT MCMURRAY	GT	-13	NG	10/90	R	
WSCC-CAN.	BC	BCHA	LYTTON DIESEL	IC	-2	FO2	10/90	R	
WSCC-CAN.	AL	CMH	MEDICINE HAT 4	ST	-3	NG	10/90	R	
WSCC-CAN.	AL	CMH	MEDICINE HAT 6	ST	-5	NG	10/90	R	
ECAR	OH	CG&E	MIAMI FORT GT 1	GT	-48	FO2	10/90	R	
ECAR	OH	CG&E	MIAMI FORT GT 2	GT	-48	FO2	10/90	R	
WSCC/RMPA	CO	CUEA	NUCLA 4	ST	64	BIT	10/90	T	
WSCC-CAN.	AL	EDMP	ROSSDALE 2	ST	-14	NG	10/90	R	
WSCC-CAN.	AL	EDMP	ROSSDALE 3	ST	-28	NG	10/90	R	
WSCC-CAN.	AL	EDMP	ROSSDALE 4	ST	-28	NG	10/90	R	
WSCC-CAN.	AL	APL	STURGEON 1	GT	-7	NG	10/90	R	
WSCC-CAN.	AL	APL	STURGEON 2	GT	-6	NG	10/90	R	
WSCC/CA-SNV	CA	PG&E	GEYSERS 22	GE	140	GST	11/90	P	
MAPP-CAN.	MB	MHEB	LIMESTONE 1	HY	120	WAT	11/90	U	
MAAC	PA	PECO	CROMBY 2	ST	-201	FO6	12/90	R	
MAPP-CAN.	SA	SPC	FUTURE GT 4	GT	100	NG	12/90	P	

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
LISTING OF GENERATING UNIT ADDITIONS AND RETIREMENTS

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED DATE	CONSTRUCTION STATUS	JOINTLY OWNED
ERCOT	TX	AUST	GAS TURBINE 4	GT	100	NG	12/90	P	
SPP/W.CENT.	OK	PSOK	GRANDFIELD DIESEL	IC	-2	FO2	12/90	R	
MAPP-CAN.	MB	MHEB	LIMESTONE 2	HY	120	WAT	12/90	U	
SPP/S.EAST	LA	MSUI	NINEMILE 3	ST	-125	NG	12/90	R	
WSCC/CA-SNV	CA	PG&E	QF WIND 90	WM	5	WND	12/90	P	
WSCC/CA-SNV	CA	PG&E	SMALL QF HYDRO 90	HY	1	WAT	12/90	P	
SERC/SOU	GA	GEPC	ATKINSON 3-4	ST	-130	FO2	01/91	R	
WSCC/CA-SNV	CA	SCE	CENTRAL PLANTS	IC	1	ZZ	01/91	T	
ERCOT	TX	TUEC	COGENERATION	CG	200	UNK	01/91	X[e]	
NPCC/ONT	ON	ONHY	COGENERATION	CG	20	UNK	01/91	P	
WSCC/CA-SNV	CA	SCE	COMBINED WIND	WM	3	WND	01/91	P	
SERC/SOU	MS	MIPR	EATON 1	ST	-24	FO6	01/91	R	
WSCC/CA-SNV	CA	SCE	GENERIC BIOMASS	IC	14	ZZ	01/91	P	
WSCC/CA-SNV	CA	PG&E	GENERIC COGENERATION 7	CG	38	UNK	01/91	P	
WSCC/CA-SNV	CA	PG&E	GENERIC COGENERATION 8	CG	38	UNK	01/91	P	
WSCC/CA-SNV	CA	PG&E	GENERIC SOLAR 91	SO	5	SUN	01/91	P	
WSCC/CA-SNV	CA	SCE	GEOTHERMAL	GE	25	GST	01/91	P	
ERCOT	TX	TUEC	HANDLEY 1	ST	-45	NG	01/91	R	
ERCOT	TX	TUEC	HANDLEY 2	ST	-80	NG	01/91	R	
WSCC/RMPA	CO	LUB	LAMAR PLANT 2	ST	-3	NG	01/91	R	
WSCC/RMPA	CO	LUB	LAMAR PLANT 5	ST	-6	NG	01/91	R	
ERCOT	TX	TUEC	MORGAN CREEK 2	ST	-22	NG	01/91	R	
ERCOT	TX	TUEC	MORGAN CREEK 3	ST	-44	NG	01/91	R	
ERCOT	TX	TUEC	PARKDALE 2	ST	-115	NG	01/91	R	
ERCOT	TX	TUEC	PARKDALE 3	ST	-125	NG	01/91	R	
WSCC/CA-SNV	CA	SCE	SMALL COGENERATION	CG	35	UNK	01/91	P	
ECAR	**[a]	CP	SMALL POWER PRODUCERS	UN	20	UNK	01/91	P	
WSCC/CA-SNV	CA	SCE	SOLAR	SO	25	SUN	01/91	P	
ERCOT	TX	TUEC	TWIN OAK 1	ST	750	LIG	01/91	U	
WSCC/CA-SNV	CA	SDGE	UNDETERMINED 1	ST	100	SUB	01/91	P	
WSCC/CA-SNV	CA	PG&E	UNID. GAS/OIL RETIREMENT	ST	-116	NG	01/91	R	
WSCC/CA-SNV	CA	PG&E	UNID. GAS/OIL RETIREMENT	ST	-115	NG	01/91	R	
WSCC/CA-SNV	CA	PG&E	UNID. PG&E SMALL HYDRO 91	HY	3	WAT	01/91	P	
SERC/SOU	MS	MIPR	WATSON A	CT	-31	FO2	01/91	R	
SPP/S.EAST	LA	CAJN	BIG CAJUN 1, UNIT 3	GT	50	FO2	02/91	P	
MAPP-CAN.	MB	MHEB	LIMESTONE 3	HY	120	WAT	02/91	U	
ERCOT	TX	TUEC	ALTERNATE SOURCE	UN	10	UNK	03/91	X[d]	
SPP/W.CENT.	TX	SWPS	CELANESE 1	ZZ	-10	ZZ	03/91	R	
ERCOT	TX	TUEC	COMBUSTION TURBINE	GT	100	FO2	03/91	P	
MAIN/WIUM	WI	WPS	HYDRO	HY	1	WAT	03/91	P	
SERC/VACAR	NC	CAPO	MAYO 2	ST	720	COL	03/91	U	
NPCC/NY	NY	POAS	NIAGARA FALLS	HY	300	WAT	03/91	L	
SERC/SOU	GA	GEPC	ROCKY MOUNTAIN 1-3	PS	848	WAT	03/91	U	
SERC/TVA	AL	TEVA	BELLEFONTE 2	NP	1212	UR	04/91	V	
WSCC/RMPA	CO	PSC	COGENERATION	CG	9	NG	04/91	P	
SPP/S.EAST	MS	MSUI	GRAND GULF 2	NB	1250	UR	04/91	U	J
MAPP-CAN.	MB	MHEB	LIMESTONE 4	HY	120	WAT	04/91	U	
ERCOT	TX	HL&P	MALAKOFF 2	ST	645	LIG	04/91	P	
WSCC/RMPA	CO	PSC	PAWNEE 2	ST	485	BIT	04/91	L	
ERCOT	TX	AUST	SEAHOLM 5	ST	-18	NG	04/91	R	
ERCOT	TX	AUST	SEAHOLM 6	ST	-18	NG	04/91	R	
WSCC/AZ-NM	AZ	SRP	CORONADO 3	ST	350	SUB	05/91	U	
MAPP-U.S.	MN	UPA	ELK RIVER 1	ST	-12	SUB	05/91	R	
MAPP-U.S.	MN	UPA	ELK RIVER 2	ST	-12	SUB	05/91	R	

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
LISTING OF GENERATING UNIT ADDITIONS AND RETIREMENTS

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED DATE	CONSTRUCTION STATUS	JOINTLY OWNED
SERC/SOU	AL	ALAP	MILLER 4	ST	666	BIT	05/91	U	
WSCC/CA-SNV	CA	LDWP	N BRAWLEY 2	GE	44	ZZ	05/91	P	
SERC/VACAR	**[a]	SOCG	UNDETERMINED	CW	108	FO2	05/91	P	
SPP/W.CENT.	OK	OKGE	UNKNOWN 3	GT	210	FO2	05/91	P	
WSCC/NWPP	OR	USCE	BLUE R LAKE PH UNIT 1	HY	10	WAT	06/91	P	
WSCC/NWPP	OR	USCE	BLUE R LAKE PH UNIT 2	HY	10	WAT	06/91	P	
WSCC/NWPP	UT	UPLC	BLUNDELL 4	GE	14	GST	06/91	P	
ERCOT	TX	LCRA	F.P.P. 4	ST	400	LIG	06/91	L	
NPCC/NY	NY	NIMP	H.E.A.R.	HY	49	WAT	06/91	P	
MAIN/WIUM	WI	WPL	NEW CO-GEN. 2	UN	5	UNK	06/91	P	
MAIN/WIUM	**[a]	WEP	SMALL UNITS	UN	10	REF	06/91	P	
SERC/SOU	FL	GUPC	SMITH A	CT	-31	FO2	06/91	R	
WSCC/AZ-NM	AZ	TEP	SPRINGERVILLE 3	ST	330	SUB	06/91	T	
SPP/W.CENT.	**[a]	SPRM	UNDETERMINED	ST	150[h]	BIT	06/91	P	J
SPP/NORTH	MO	ASEC	WATSON 1	ST	630	BIT	06/91	P	
WSCC/CA-SNV	NV	LDWP	WHITE PINE 1	ST	750	BIT	06/91	P	J
WSCC/NWPP	MT	MPC	HEBGEN	HY	4	WAT	07/91	P	
WSCC/NWPP	MT	MPC	HEBGEN	HY	4	WAT	07/91	P	
MAPP-CAN.	MB	MHEB	LIMESTONE 5	HY	120	WAT	07/91	U	
WSCC/RMPA	CO	SCPC	PUEBLO 2	ST	-8	NG	07/91	R	
ECAR	OH	CG&E	W.H.ZIMMER 1	ST	1301	COL	07/91	U	J
WSCC/CA-SNV	CA	PG&E	GEYSERS 19	GE	55	GST	08/91	P	
WSCC/NWPP	OR	USCE	MCNARY 2ND PH 15	HY	129	WAT	08/91	P	
MAPP-CAN.	MB	MHEB	LIMESTONE 6	HY	120	WAT	10/91	U	
WSCC/CA-SNV	CA	MID	UNNAMED HYDRO 3	HY	2	WAT	10/91	P	
WSCC/NWPP	WA	USCE	WYNOOCHEE UNIT 1	HY	2	WAT	10/91	P	
WSCC/NWPP	WA	USCE	WYNOOCHEE UNIT 2	HY	4	WAT	10/91	P	
WSCC/NWPP	WA	USCE	WYNOOCHEE UNIT 3	HY	4	WAT	10/91	P	
NPCC/ONT	ON	ONHY	DARLINGTON 3	CO	881	UR	11/91	U	
WSCC/CA-SNV	CA	PG&E	GEYSERS 23	GE	140	GST	11/91	P	
WSCC/NWPP	OR	USCE	MCNARY 2ND PH 16	HY	129	WAT	11/91	P	
NPCC/NE	ME	BAHE	PENOBSCOT RIVER 4	HY	2	WAT	11/91	P	
NPCC/NE	NH	PSNH	SCHILLER 4	ST	-48	COL	11/91	R	
WSCC/CA-SNV	CA	SCE	BEAR BUTTE	HY	22	WAT	12/91	P	
ERCOT	TX	AUST	COAL 1	ST	400	SUB	12/91	P	
NPCC/NE	CT	NOEU	DEVON 3	ST	-68	FO6	12/91	R	
NPCC/NE	CT	NOEU	DEVON 6	ST	-68	FO6	12/91	R	
MAPP-CAN.	SA	SPC	FUTURE FOSSIL 1	ST	272	LIG	12/91	P	
WSCC/CA-SNV	CA	PG&E	GENERIC WIND 91	WM	12	WND	12/91	P	
MAPP-CAN.	MB	MHEB	LIMESTONE 7	HY	120	WAT	12/91	U	
SPP/S.EAST	LA	CAJN	OPELOUSAS 1 & 2	ST	-34	GAS	12/91	R	
WSCC/CA-SNV	CA	PG&E	QF WIND 91	WM	3	WND	12/91	P	
WSCC/CA-SNV	CA	PG&E	SMALL QF HYDRO 91	HY	1	WAT	12/91	P	
SPP/W.CENT.	OK	PSOK	UNDETERMINED	GT	75	NG	12/91	P	
SERC/VACAR	SC	DUPC	BAD CREEK 1	PS	250	WAT	**/91[f]	U	
SERC/VACAR	SC	DUPC	BAD CREEK 2	PS	250	WAT	**/91[f]	U	
SPP/S.EAST	LA	CAJN	BIG CAJUN 1, UNIT 4	GT	50	FO2	01/92	P	
SPP/S.EAST	LA	CAJN	BIG CAJUN 2, UNIT 4	GT	50	FO2	01/92	P	
SPP/S.EAST	LA	CAJN	BIG CAJUN 2, UNIT 5	GT	50	FO2	01/92	P	
WSCC/CA-SNV	CA	PASA	BROADWAY 2	ST	-45	NG	01/92	R	
WSCC/CA-SNV	CA	SCE	CENTRAL PLANTS	IC	0	ZZ	01/92	T	
SERC/SOU	AL	ALAP	CHICKASAW 3	ST	-41	FO2	01/92	R	
NPCC/ONT	ON	ONHY	COGENERATION	CG	20	UNK	01/92	P	
ERCOT	TX	TUEC	COLLIN	ST	-153	NG	01/92	R	

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
LISTING OF GENERATING UNIT ADDITIONS AND RETIREMENTS

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED DATE	CONSTRUCTION STATUS	JOINTLY OWNED
WSCC/CA-SNV	CA	SCE	COMBINED WIND	WM	3	WND	01/92	P	
WSCC/CA-SNV	CA	SCE	GENERIC BIOMASS	IC	15	UNK	01/92	P	
WSCC/CA-SNV	CA	PG&E	GENERIC COGENERATION 9	CG	38	UNK	01/92	P	
WSCC/CA-SNV	CA	PG&E	GENERIC COGENERATION 10	CG	38	UNK	01/92	P	
WSCC/CA-SNV	CA	PG&E	GENERIC SOLAR 92	SO	5	SUN	01/92	P	
WSCC/CA-SNV	CA	SCE	GEOTHERMAL	GE	25	GST	01/92	P	
NPCC/NY	NY	NIMP	H.E.A.R.	HY	2	WAT	01/92	P	
ERCOT	TX	TUEC	LAKE CREEK 1	ST	-87	NG	01/92	R	
ERCOT	TX	TUEC	MORGAN CREEK 4	ST	-70	NG	01/92	R	
ERCOT	TX	TUEC	NORTH MAIN 4	ST	-80	NG	01/92	R	
ERCOT	TX	TUEC	PARKDALE 1	ST	-87	NG	01/92	R	
ERCOT	TX	TUEC	PERMIAN BASIN 5	ST	-115	NG	01/92	R	
MAIN/WIUM	WI	WEP	PORT WASHINGTON 1	ST	-49	BIT	01/92	R	
MAIN/WIUM	WI	WEP	PORT WASHINGTON 2	ST	-69	BIT	01/92	R	
ERCOT	TX	TUEC	RIVERCREST	ST	-110	NG	01/92	R	
WSCC/CA-SNV	CA	SCE	SMALL COGENERATION	CG	35	UNK	01/92	P	
WSCC/CA-SNV	CA	SCE	SMALL HYDRO	HY	1	WAT	01/92	P	
ECAR	**[a]	CP	SMALL POWER PRODUCERS	UN	20	UNK	01/92	P	
WSCC/CA-SNV	CA	PG&E	SMALL QF HYDRO 92	HY	4	WAT	01/92	P	
WSCC/CA-SNV	CA	SCE	SOLAR	SO	25	SUN	01/92	P	
WSCC/NWPP	ID	IPC	SWAN FALLS REBUILD	HY	13	WAT	01/92	P	
SERC/SOU	MS	MIPR	SWEATT A	CT	-31	FO2	01/92	L	
SERC/SOU	AL	ALAP	THURLOW 4	HY	40	WAT	01/92	R	
ERCOT	TX	TUEC	TRINIDAD 5	ST	-70	NG	01/92	P	
ERCOT	TX	TUEC	TWIN OAK 2	ST	750	LIG	01/92	R	
WSCC/CA-SNV	CA	PG&E	UNID. GAS/OIL RETIREMENT	ST	-116	NG	01/92	U	
WSCC/CA-SNV	CA	PG&E	UNID. GAS/OIL RETIREMENT	ST	-116	NG	01/92	R	
WSCC/CA-SNV	CA	PG&E	UNID. GAS/OIL RETIREMENT	ST	-117	NG	01/92	R	
WSCC/CA-SNV	CA	PG&E	UNID. PG&E SMALL HYDRO 92	HY	3	WAT	01/92	R	
WSCC/CA-SNV	CA	SMUD	UNIDENTIFIED PEAKING	ZZ	50	UNK	01/92	P	
WSCC/CA-SNV	CA	SMUD	UNIDENTIFIED PEAKING	ZZ	50	UNK	01/92	P	
WSCC/CA-SNV	CA	SMUD	UNIDENTIFIED PEAKING	ZZ	50	UNK	01/92	P	
MAAC	MD	BCCO	WESTPORT NO. 3	ST	-58	FO6	01/92	P	
MAAC	MD	BCCO	WESTPORT NO. 4	ST	-68	FO6	01/92	R	
SERC/SOU	AL	ALAP	YATES 3	HY	30	WAT	01/92	R	
WSCC/NWPP	OR	USCE	MCNARY 2ND PH 17	HY	129	WAT	02/92	P	
ERCOT	TX	TUEC	ALTERNATE SOURCE	UN	10	UNK	03/92	P	
SPP/W.CENT.	NM	SWPS	CARLSBAD 5	GT	-16	GAS	03/92	X[d]	
ERCOT	TX	TUEC	COGENERATION	CG	300	UNK	03/92	R	
ERCOT	TX	TUEC	COMBUSTION TURBINE	GT	330	FO2	03/92	X[e]	
SPP/NORTH	KS	KACP	LACYGNE 2	ST	-16	BIT	03/92	P	
SPP/W.CENT.	NM	SWPS	TUCUMCARY 3,4,6,8,9	IC	-14	GAS	03/92	R	
WSCC/NWPP	WA	BPA	WNP 3	NP	1240	UR	03/92	R	
ECAR	IN	SIGE	BROADWAY 4	GT	70	NG	04/92	V	J
WSCC/RMPA	CO	PSC	COGENERATION	CG	10	NG	04/92	P	
ECAR	**[a]	CG&E	NEW GT 1	GT	60	FO2	04/92	P	
ECAR	**[a]	CG&E	NEW GT 2	GT	60	FO2	04/92	P	
WSCC/RMPA	CO	CCS	NIXON 2	ST	350	BIT	04/92	P	
MAAC	MD	BCCO	BRANDON SHORES 2	ST	620	BIT	05/92	U	
MAAC	MD	DPLC	EASTON UNIDENTIFIED CT	IC	6	FO2	05/92	P	
MAPP-U.S.	MN	NSP	HENNEPIN ISLAND 6	HY	1	WAT	05/92	P	
MAPP-U.S.	MN	NSP	HENNEPIN ISLAND 7	HY	1	WAT	05/92	P	
MAPP-CAN.	MB	MHEB	LIMESTONE 8	HY	120	WAT	05/92	U	
WSCC/NWPP	OR	USCE	MCNARY 2ND PH 18	HY	129	WAT	05/92	P	

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
LISTING OF GENERATING UNIT ADDITIONS AND RETIREMENTS

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED DATE	CONSTRUCTION STATUS	JOINTLY OWNED
WSCC/CA-SNV	CA	LDWP	N BRAWLEY 3	GE	44	ZZ	05/92	P	
SPP/NORTH	KS	EMDE	RIVERTON 6	ST	-30	NG	05/92	R	
MAPP-U.S.	NE	NPPD	SCOTTSBLUFF 2	ST	-6	NG	05/92	R	
SPP/NORTH	MO	MIPU	UNKNOWN	ST	100	SUB	05/92	P	J
SPP/W.CENT.	OK	OKGE	UNKNOWN 4	GT	210	FO2	05/92	P	
ERCOT	TX	HL&P	COGENERATION/OTHER	CG	400	UNK	06/92	X[b]	
WSCC/CA-SNV	UT	NEVP	GENERIC GEOTHERMAL	GE	10	GST	06/92	P	
NPCC/NY	NY	NIMP	H.E.A.R.	HY	1	WAT	06/92	P	
MAIN/WIUM	WI	WPL	HYDRO	HY	1	WAT	06/92	P	
SPP/NORTH	**[a]	EMDE	UNKNOWN	ST	75	COL	06/92	P	J
WSCC/CA-SNV	NV	LDWP	WHITE PINE 2	ST	750	BIT	06/92	P	J
MAPP-CAN.	SA	SPC	ESTEVAN 2	ST	-14	LIG	07/92	R	
MAPP-CAN.	SA	SPC	ESTEVAN 3	ST	-19	LIG	07/92	R	
MAPP-CAN.	SA	SPC	ESTEVAN 4	ST	-29	LIG	07/92	R	
WSCC/CA-SNV	CA	SCE	FUEL CELL 1	FC	8	UNK	07/92	P	
NPCC/NY	NY	POAS	PASNY SOLID WASTE	ST	40	REF	07/92	P	
NPCC/ONT	ON	ONHY	DARLINGTON 4	CD	881	UR	08/92	U	
MAPP-CAN.	MB	MHEB	LIMESTONE 9	HY	120	WAT	08/92	U	
WSCC/NWPP	OR	USCE	MCNARY 2ND PH 19	HY	129	WAT	08/92	P	
ECAR	**[a]	APS	COAL 1	ST	300	COL	09/92	P	
NPCC/QUE	QB	HYQB	LA GRANDE 2, UNIT 1	HY	316	WAT	09/92	T	
ECAR	KY	EKPC	J.K.SMITH 1	ST	600	COL	10/92	U	
ECAR	OH	CG&E	MIAMI FORT GT 3	GT	-14	FO2	10/92	R	
ECAR	OH	CG&E	MIAMI FORT GT 4	GT	-14	FO2	10/92	R	
ECAR	OH	CG&E	MIAMI FORT GT 5	GT	-14	FO2	10/92	R	
ECAR	OH	CG&E	MIAMI FORT GT 6	GT	-15	FO2	10/92	R	
SERC/VACAR	**[a]	VIEP	NEW CAPACITY 1	ST	750	COL	10/92	P	
ECAR	**[a]	IP&L	UNDESIGNATED	GT	80	FO2	10/92	P	
MAPP-U.S.	MN	SMMP	AUSTIN NORTHEAST 1	ST	-30	BIT	11/92	R	
SPP/W.CENT.	OK	OKGE	ENID 1-4	GT	-48	NG	11/92	R	
MAPP-U.S.	MN	SMMP	FAIRMONT 5	ST	-12	BIT	11/92	R	
WSCC/CA-SNV	CA	PG&E	GEYSERS 24	GE	140	GST	11/92	P	
NPCC/QUE	QB	HYQB	LA GRANDE 2, UNIT 2	HY	316	WAT	11/92	T	
MAPP-CAN.	MB	MHEB	LIMESTONE 10	HY	120	WAT	11/92	U	
NPCC/NE	NH	CEMP	MASON 2	ST	-22	FO6	11/92	R	
WSCC/NWPP	OR	USCE	MCNARY 2ND PH 20	HY	129	WAT	11/92	P	
MAPP-U.S.	MN	SMMP	ROCHESTER SILVER LK 3	ST	-22	BIT	11/92	R	
MAPP-U.S.	MN	SMMP	ROCHESTER SILVER LK 4	ST	-60	BIT	11/92	R	
SPP/W.CENT.	OK	OKGE	WOODWARD GT	GT	-11	NG	11/92	R	
ERCOT	TX	CP&L	CT 1	CT	75	NG	12/92	P	
ERCOT	TX	CP&L	CT 2	CT	75	NG	12/92	P	
ERCOT	TX	CP&L	CT 3	CT	75	NG	12/92	P	
WSCC/CA-SNV	CA	PG&E	GENERIC WIND 92	WM	13	WND	12/92	P	
ECAR	OH	CG&E	MIAMI FORT 5	ST	-80	COL	12/92	R	
SPP/S.EAST	LA	MSUI	MICHOUD 1	ST	-113	NG	12/92	R	
WSCC/CA-SNV	CA	PG&E	QF WIND 92	WM	2	WND	12/92	P	
SPP/W.CENT.	OK	PSOK	UNDETERMINED	GT	75	NG	12/92	P	
SPP/W.CENT.	OK	PSOK	UNDETERMINED	GT	75	NG	12/92	P	
SPP/W.CENT.	OK	PSOK	UNDETERMINED	GT	75	NG	12/92	P	
NPCC/NE	MA	NOEU	WEST SPRINGFIELD 1	ST	-51	FO6	12/92	R	
NPCC/NE	MA	NOEU	WEST SPRINGFIELD 2	ST	-51	FO6	12/92	R	
SERC/VACAR	SC	DUPC	BAD CREEK 3	PS	250	WAT	**/92[f]	U	
SERC/VACAR	SC	DUPC	BAD CREEK 4	PS	250	WAT	**/92[f]	U	
SPP/S.EAST	LA	CAJN	CHALKLEY, UNIT 1	GT	50	FO2	01/93	P	

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
LISTING OF GENERATING UNIT ADDITIONS AND RETIREMENTS

REGION/ SUBREGION	STATE/ PROV	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED DATE	CONSTRUCTION STATUS	JOINTLY OWNED
NPCC/ONT	ON	ONHY	COGENERATION	CG	20	UNK	01/93	P	
WSCC/CA-SNV	CA	SCE	COMBINED WIND	WM	3	WND	01/93	P	
SERC/SOU	MS	MIPR	EATON 2	ST	-26	FO6	01/93	R	
WSCC/CA-SNV	CA	SCE	GENERIC BIOMASS	IC	15	UNK	01/93	P	
WSCC/CA-SNV	CA	PG&E	GENERIC COGENERATION 11	CG	50	UNK	01/93	P	
WSCC/CA-SNV	CA	SCE	GENERIC GEOTHERMAL	GE	25	GST	01/93	P	
WSCC/CA-SNV	CA	PG&E	GENERIC SOLAR 93	SO	5	SUN	01/93	P	
ERCOT	TX	TUEC	MOUNTAIN CREEK 2	ST	-33	NG	01/93	R	
ERCOT	TX	TUEC	MOUNTAIN CREEK 3	ST	-70	NG	01/93	R	
WSCC/CA-SNV	CA	SCE	OIL FIELD COGEN	CG	250	UNK	01/93	P	
SERC/FLA	FL	TALL	SAM O. PURDOM 6	ST	-22	FO6	01/93	R	
ERCOT	TX	ST&M	SAN MIGUEL 2	ST	400	LIG	01/93	P	J
WSCC/CA-SNV	CA	SCE	SMALL COGENERATION	CG	35	UNK	01/93	P	
ECAR	**[a]	CP	SMALL POWER PRODUCERS	UN	10	UNK	01/93	P	
WSCC/CA-SNV	CA	SCE	SOLAR	SO	25	SUN	01/93	P	
WSCC/CA-SNV	CA	PG&E	UNID. PG&E SMALL HYDRO 93	HY	3	WAT	01/93	P	
SPP/S.EAST	LA	CAJN	VATICAN, UNIT 1	GT	50	FO2	01/93	P	
SPP/S.EAST	LA	MSUI	WILTON 1	ST	800	COL	01/93	P	
ERCOT	TX	TUEC	FOREST GROVE 1	ST	750	LIG	02/93	U	
ERCOT	TX	TUEC	ALTERNATIVE SOURCE	UN	10	UNK	03/93	X[d]	
ERCOT	TX	TUEC	COMBUSTION TURBINE	GT	190	FO2	03/93	P	
SPP/NORTH	KS	KACP	LACYGNE 1	ST	-18	BIT	03/93	R	
SPP/W.CENT.	TX	SWPS	PLANT X 1	ST	-48	GAS	03/93	R	
SERC/FLA	FL	TALL	UNKNOWN	ST	400	BIT	03/93	P	
WSCC/RMPA	CO	PSC	COGENERATION	CG	12	NG	04/93	P	
ECAR	**[a]	CG&E	NEW GT 3	GT	60	FO2	04/93	P	
ECAR	**[a]	CG&E	NEW GT 4	GT	60	FO2	04/93	P	
ECAR	**[a]	PSI	UNDESIGNATED	CT	108	FO2	04/93	P	
ECAR	**[a]	PSI	UNDESIGNATED	CT	108	FO2	04/93	P	
ECAR	**[a]	PSI	UNDESIGNATED	CA	90	FO2	04/93	P	
ERCOT	TX	CPSA	UNDESIGNATED	ST	498	LIG	04/93	P	
SPP/NORTH	MO	STJO	BASE CAPACITY	ST	50	SUB	05/93	P	
MAAC	**[a]	GPUS	COAL 1	ST	625	BIT	05/93	P	
WSCC/CA-SNV	CA	RDNG	COTTONWOOD	HY	2	WAT	05/93	L	
SERC/VACAR	SC	SOCA	CROSS SITE 1	ST	500	BIT	05/93	L	
NPCC/NY	NY	POAS	PRATTSVILLE	PS	1000	WAT	05/93	P	
SERC/VACAR	**[a]	SOCG	UNDETERMINED	ST	300	COL	05/93	P	
SPP/W.CENT.	OK	OKGE	UNKNOWN 5	ST	400	SUB	05/93	P	
ERCOT	TX	HL&P	COGENERATION/OTHER	CG	600	UNK	06/93	X[b]	
SERC/SOU	**[a]	ALEC	COMBUSTION TURBINE 1	GT	30	FO2	06/93	P	
NPCC/NY	NY	NIMP	H.E.A.R.	HY	1	WAT	06/93	P	
WSCC/NWPP	WA	BPA	HANFORD 1	ZZ	-420	PL	06/93	R	
WSCC/NWPP	WA	BPA	HANFORD 2	ZZ	-420	PL	06/93	R	
MAIN/WIUM	WI	WPL	NEW CO-GEN. 3	UN	5	UNK	06/93	P	
MAIN/WIUM	**[a]	WEP	SMALL UNITS	UN	10	UNK	06/93	P	
SPP/W.CENT.	TX	SWPS	SO. PLAINS STATION 2	ST	532	SUB	06/93	P	
NPCC/QUE	QB	HYQB	LA GRANDE 2, UNIT 3	HY	316	WAT	09/93	T	
WSCC/NWPP	WA	BPA	WNP 1	NP	1250	UR	09/93	V	J
ECAR	OH	CG&E	DICKS CREEK GT 3	GT	-14	NG	10/93	R	
ECAR	OH	CG&E	DICKS CREEK GT 4	GT	-15	FO2	10/93	R	
ECAR	OH	CG&E	DICKS CREEK GT 5	GT	-15	FO2	10/93	R	
ECAR	KY	KU	HANCOCK CO. 1	ST	650	COL	10/93	P	
WSCC-CAN.	AL	TAUC	NEW STEAM 1	ST	360	SUB	10/93	P	
ECAR	XX	IP&L	UNDESIGNATED	GT	80	FO2	10/93	P	

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
LISTING OF GENERATING UNIT ADDITIONS AND RETIREMENTS

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED DATE	CONSTRUCTION STATUS	JOINTLY OWNED
NPCC/NE	MA	COMW	BLACKSTONE 1	ST	-14	FO6	11/93	R	
NPCC/NE	MA	COMW	BLACKSTONE 3	ST	0	FO6	11/93	R	
NPCC/NE	MA	COMW	BLACKSTONE 4	ST	-2	FO6	11/93	R	
NPCC/QUE	QB	HYQB	LA GRANDE 2, UNIT 4	HY	316	WAT	11/93	T	
NPCC/ONT	ON	ONHY	LITTLE JACKFISH 1,2	HY	132	WAT	11/93	P	
NPCC/NY	NY	LOIL	PORT JEFFERSON 1	ST	-48	FO6	11/93	R	
ERCOT	TX	UETU	COLETO CREEK 2	ST	640	BIT	12/93	P	J
NPCC/NE	CT	NOEU	FRANKLIN DRIVE 19	JE	-17	FO1	12/93	R	
MAPP-CAN.	SA	SPC	FUTURE GT 5	GT	100	NG	12/93	P	
WSCC/CA-SNV	CA	PG&E	GENERIC WIND 93	WM	15	WND	12/93	P	
SPP/W.CENT.	TX	SOEP	KNOX LEE 2	ST	-38	NG	12/93	R	
SPP/W.CENT.	TX	SOEP	KNOX LEE 3	ST	-36	NG	12/93	R	
SPP/W.CENT.	TX	SOEP	LONE STAR 1	ST	-50	FO2	12/93	R	
SPP/W.CENT.	TX	SOEP	LONE STAR 2	GT	-13	FO2	12/93	R	
SPP/W.CENT.	TX	SOEP	LONE STAR 3	GT	-13	FO2	12/93	R	
SPP/W.CENT.	TX	SOEP	LONE STAR 4	GT	-14	FO2	12/93	R	
NPCC/NE	CT	NOEU	MIDDLETOWN 1	ST	-70	FO6	12/93	R	
SPP/S.EAST	MS	MSUI	REX BROWN 1	ST	-36	NG	12/93	R	
MAAC	PA	PECO	SCHUYLKILL 1	ST	-166	FO6	12/93	R	
MAAC	PA	PECO	SCHUYLKILL D	IC	-3	FO2	12/93	R	
WSCC/CA-SNV	CA	PG&E	SMALL QF HYDRO 93	HY	1	WAT	12/93	P	
SPP/S.EAST	LA	MSUI	STERLINGTON 6	ST	-210	NG	12/93	R	
SERC/SOU	**[a]	SAEP	NOT AVAILABLE	ST	38	BIT	**/93	P	
SPP/S.EAST	LA	CAJN	BIG CAJUN 2, UNIT 6	GT	50	FO2	01/94	P	
SPP/S.EAST	LA	CAJN	CHALKLEY, UNIT 2	GT	50	FO2	01/94	P	
NPCC/ONT	ON	ONHY	COGENERATION	CG	20	UNK	01/94	P	
ERCOT	TX	TUEC	EAGLE MOUNTAIN 1	ST	-115	NG	01/94	R	
ERCOT	TX	TUEC	EAGLE MOUNTAIN 2	ST	-175	NG	01/94	R	
WSCC/CA-SNV	CA	SCE	GENERIC BIOMASS	IC	15	UNK	01/94	P	
WSCC/CA-SNV	CA	SCE	GENERIC COGEN	CG	35	UNK	01/94	P	
WSCC/CA-SNV	CA	PG&E	GENERIC COGENERATION 12	CG	50	UNK	01/94	P	
WSCC/CA-SNV	CA	SCE	GENERIC GEOTHERMAL	GE	25	GST	01/94	P	
WSCC/CA-SNV	CA	SCE	GENERIC HYDRO	HY	1	WAT	01/94	P	
WSCC/CA-SNV	CA	SCE	GENERIC SOLAR	SO	25	SUN	01/94	P	
WSCC/CA-SNV	CA	PG&E	GENERIC SOLAR 94	SO	5	SUN	01/94	P	
ERCOT	TX	TUEC	MARTIN LAKE 4	ST	750	LIG	01/94	U	
SPP/S.EAST	LA	GUSU	NELSON 5	ST	540	SUB	01/94	P	
ECAR	**[a]	CP	SMALL POWER PRODUCERS	UN	10	UNK	01/94	P	
WSCC/CA-SNV	CA	PG&E	UNID. PG&E SMALL HYDRO 94	HY	3	WAT	01/94	P	
WSCC/CA-SNV	CA	SMUD	UNIDENTIFIED PEAKING	ZZ	50	UNK	01/94	P	
WSCC/CA-SNV	CA	SMUD	UNIDENTIFIED PEAKING	ZZ	50	UNK	01/94	P	
SPP/S.EAST	LA	CAJN	VATICAN, UNIT 2	GT	50	FO2	01/94	P	
ERCOT	TX	TUEC	ALTERNATE SOURCE	UN	15	UNK	03/94	X[d]	
MAIN/WIUM	WI	WPS	COGENERATION PLANT	ST	12	COL	03/94	P	
ERCOT	TX	TUEC	COMBUSTION TURBINE	GT	240	FO2	03/94	P	
SPP/NORTH	MO	KACP	HAWTHORN 5	ST	-22	BIT	03/94	R	
SPP/W.CENT.	TX	SWPS	PLANT X 2	ST	-102	GAS	03/94	R	
ECAR	**[a]	CG&E	NEW GT 5	GT	60	FO2	04/94	P	
ECAR	**[a]	CG&E	NEW GT 6	GT	60	FO2	04/94	P	
WSCC/RMPA	CO	PSC	UNSITED COAL 1	ST	250	BIT	04/94	P	
MAAC	MD	DPLC	EASTON 7	IC	-2	FO2	05/94	R	
MAAC	MD	DPLC	EASTON UNIDENTIFIED CT	IC	5	FO2	05/94	P	
MAPP-U.S.	ND	NSP	NORTH DAKOTA LIGNITE 1	ST	500	LIG	05/94	P	J
SPP/W.CENT.	OK	OKGE	UNKNOWN 6	GT	140	FO2	05/94	P	

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
LISTING OF GENERATING UNIT ADDITIONS AND RETIREMENTS

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	UNIT TYPE	SUMMER MW CAPABILITY	FUEL TYPE	PROJECTED DATE	CONSTRUCTION STATUS	JOINTLY OWNED
SPP/NORTH	KS	KAPL	ABILENE 1	ST	-18	NG	06/94	R	
SPP/NORTH	KS	KAPL	ABILENE 2	ST	-18	NG	06/94	R	
ERCOT	TX	HL&P	COGENERATION/OTHER	CG	600	UNK	06/94	X[b]	
SPP/NORTH	MO	EMDE	ENERGY CENTER NO. 4	CA	75	NG	06/94	P	
SPP/NORTH	KS	KAPL	HUTCHINSON 1	ST	-19	NG	06/94	R	
SPP/NORTH	KS	KAPL	HUTCHINSON 2	ST	-19	NG	06/94	R	
SPP/NORTH	KS	KAPL	HUTCHINSON 3	ST	-30	NG	06/94	R	
SPP/NORTH	KS	KAPL	JEFFREY ENERGY CENTER 4	ST	680	SUB	06/94	P	J
SPP/NORTH	KS	KAPL	LAWRENCE 2	ST	-31	NG	06/94	R	
WSCC/AZ-NM	AZ	APS	PEAKING 1	GT	100	FO2	06/94	T	
MAIN/WIUM	WI	WPL	WIND	WM	8	WND	06/94	P	
WSCC/CA-SNV	CA	SCE	FUEL CELLS 2	FC	22	UNK	07/94	P	
ERCOT	TX	TMPP	UNDESIGNATED 1	ST	250	LIG	07/94	P	
ECAR	**[a]	APS	COAL 2	ST	300	COL	09/94	P	
NPCC/QUE	QB	HYQB	LA GRANDE 2, UNIT 5	HY	316	WAT	09/94	T	
SERC/VACAR	**[a]	VIEP	NEW CAPACITY 2	ST	750	COL	10/94	P	
NPCC/QUE	QB	HYQB	LA GRANDE 2, UNIT 6	HY	316	WAT	11/94	T	
SPP/W.CENT.	OK	OKGE	MUSTANG 1	ST	-58	NG	11/94	R	
SPP/W.CENT.	OK	OKGE	MUSTANG 2	ST	-57	NG	11/94	R	
NPCC/NE	ME	BAHE	PENOBSCOT RIVER 5	HY	9	WAT	11/94	P	
NPCC/NE	NH	PSNH	SCHILLER 5	ST	-52	COL	11/94	R	
NPCC/NE	CT	NOEU	COS COB 10	JE	-19	FO1	12/94	R	
NPCC/NE	CT	NOEU	COS COB 11	JE	-19	FO1	12/94	R	
NPCC/NE	CT	NOEU	COS COB 12	JE	0	FO1	12/94	R	
NPCC/NE	CT	NOEU	DOREEN 10	JE	-17	FO1	12/94	R	
MAPP-CAN.	SA	SPC	FUTURE FOSSIL 2	ST	272	LIG	12/94	P	
WSCC/CA-SNV	CA	PG&E	GENERIC WIND 94	WM	15	WND	12/94	P	
WSCC/CA-SNV	CA	PG&E	HAAS-KINGS R IMPROVEMENTS	HY	38	WAT	12/94	P	
SERC/FLA	FL	FOPC	KING 6	ST	-18	FO6	12/94	R	
NPCC/NE	CT	NOEU	MONTVILLE 5	ST	-81	FO6	12/94	R	
SPP/S.EAST	MS	MSUI	REX BROWN 4	ST	-210	NG	12/94	R	
NPCC/NE	CT	NOEU	SILVER LAKE 12	GT	-14	FO2	12/94	R	
WSCC/CA-SNV	CA	PG&E	SMALL QF HYDRO 94	HY	1	WAT	12/94	P	
SPP/W.CENT.	OK	PSOK	SOUTHWESTERN-1	ST	-80	NG	12/94	R	
SPP/W.CENT.	OK	PSOK	TULSA-3	ST	-85	NG	12/94	R	
SPP/W.CENT.	OK	PSOK	UNDETERMINED	GT	75	NG	12/94	P	
SPP/W.CENT.	TX	SOEP	WALKER COUNTY A 1	ST	640[i]	LIG	12/94	P	J
NPCC/NE	CT	NOEU	WOODLAND ROAD 10	JE	-17	FO1	12/94	R	
ECAR	OH	CAPC	PERRY 2	NB	1179	UR	**/**[j]	V	J
NPCC/NE	NH	PSNH	SEABROOK 2	NP	1150	UR	**/**[k]	U	J

Footnotes to Planned Generating Unit Additions and Retirements

a/ Location undesignated.

b/ Includes firm cogeneration and additional firm capacity from other sources.

c/ Cogeneration capacity owned by other than ERCOT member systems.

d/ This additional capacity may be realized by load management or conservation, by rescheduling of planned units, by deferral of unit retirements, or by other sources.

e/ 125 MW of 1,250 MW Grand Gulf unit capacity to participant in Southern Subregion of SERC.

f/ Montn undetermined.

g/ 175 MW of 640 MW Oklaunion unit capacity to participants in SPP Region.

h/ 150 MW of a 600 MW class unit. Other owners not yet determined.

i/ 425 MW of 640 MW Walker County unit capacity to participants in ERCOT Region.

j/ Schedule under review.

k/ Date indeterminate.

PLANNED GENERATING UNIT CONVERSIONS

The oil-fired generating units planned to be converted to coal-firing over the next ten years are listed in this table.

These data are reported directly to the Electric Council.

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
LISTING OF UNIT CONVERSIONS TO COAL-FIRING

REGION/ SUBREGION	STATE/ PROV.	UTILITY SYSTEM	UNIT NAME	FORMER FUEL	SUMMER CAPABILITY BEFORE CONVERSION	REMOVAL DATE	RETURN DATE	SUMMER CAPABILITY AFTER CONVERSION
NPCC/NY	NY	ORRU	LOVETT 5	F06	202	12/86	03/87	196
NPCC/NY	NY	ORRU	LOVETT 4	F06	197	03/87	06/87	191
NPCC/NY	NY	ORRU	LOVETT 3	F06	63	10/93	01/94	63
NPCC/NY	NY	CEHG	DANSKAMER 4	F06	225	11/86	03/87	230
NPCC/NY	NY	CEHG	DANSKAMER 3	F06	120	04/87	09/87	133
NPCC/NY	NY	COEN	RAVENSWOOD 3	F06	972	**/**	**/**	972
NPCC/NY	NY	COEN	ARTHUR KILL 2	F06	335	**/**	**/**	335
NPCC/NY	NY	COEN	ARTHUR KILL 3	F06	491	**/**	**/**	491
NPCC/NE	NH	PSNH	SCHILLER 5	F06	52	03/85	01/86	48
NPCC/NE	NH	PSNH	SCHILLER 6	F06	52	12/84	01/86	49
NPCC/NE	MA	BOEC	NEW BOSTON 1	F06	380	07/87	01/88	374
NPCC/NE	MA	BOEC	NEW BOSTON 2	F06	380	05/88	01/89	374
SERC/FLA	FL	TAEC	GANNON 1	F06	103	06/85	09/85	103
SERC/FLA	FL	TAEC	GANNON 2	F06	108	02/85	06/85	108
SERC/VACAR	VA	VIEP	YORKTOWN 2	F06	170	02/85	08/85	170
SERC/VACAR	VA	VIEP	PORTSMOUTH 1	F06	101	05/80	04/87	108
SERC/VACAR	VA	VIEP	PORTSMOUTH 2	F06	101	10/80	12/86	113
WSCC/AZ-NM	AZ	TEP	IRVINGTON 4	F06	156	10/85	06/86	98
WSCC/AZ-NM	AZ	TEP	IRVINGTON 3	F06	104	10/87	06/88	84
WSCC/AZ-NM	AZ	TEP	IRVINGTON 2	F06	81	10/89	06/90	37
WSCC/AZ-NM	AZ	TEP	IRVINGTON 1	F06	81	10/89	06/90	37
					4474			4314

Footnote

/ Date not available.

PLANNED TRANSMISSION LINE ADDITIONS

The number of miles of transmission lines (230 kV and above) existing and planned over the next ten years are shown in the following tables.

These data are reported directly to the Electric Council.

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
REGIONAL PLANNED TRANSMISSION LINE ADDITIONS

TABLE 1 --- EXISTING (1/1/85)

	VOLTAGE (KV)							
	HVAC				HVDC			
REGION	230	345	500	765	250-300	400	450	500
ECAR	1,037	11,637	812	1,849	0	0	0	0
ERCOT	0	6,060	0	0	0	0	0	0
MAAC	4,620	170	1,580	0	0	0	0	0
MAIN	261	4,913[a]	0	90	0	0	0	0
MAPP (U.S.)	6,869	4,620	640	0	465	436	0	0
NPCC (U.S.)	1,534	3,962	5	252	0	0	0	0
SERC	19,058	2	6,326	0	0	0	0	0
SPP	3,769	4,029	1,799	0	0	0	0	0
WSCC (U.S.)	29,742	8,193[b]	10,479	0	0	844	0	0
NERC (U.S.)	66,890	43,586	21,641	2,191	465	1,280	0	0
MAPP (CANADA)	3,979	0	130	0	582	0	557	0
NPCC (CANADA)	10,842	4,598	1,381	6,169	0	0	0	0
WSCC (CANADA)	4,847	264[c]	3,350	0	93	0	0	0
NERC (CANADA)	19,668	4,862	4,861	6,169	675	0	557	0

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
SUBREGIONAL PLANNED TRANSMISSION LINE ADDITIONS

TABLE 1 (CONT.) --- EXISTING (1/1/85)

	VOLTAGE (KV)							
	HVAC				HVDC			
SUBREGION	230	345	500	765	250-300	400	450	500
CMNWLTH ED.	0	2,335	0	90	0	0	0	0
EAST MISSOURI	89	892	0	0	0	0	0	0
SO. CENT. ILL.	49	789	0	0	0	0	0	0
WIUM	123	897[a]	0	0	0	0	0	0
MAIN	261	4,913	0	90	0	0	0	0
NEW YORK	1,090	2,326	5	252	0	0	0	0
NEW ENGLAND	444	1,636	0	0	0	0	0	0
NPCC (U.S.)	1,534	3,962	5	252	0	0	0	0
NEW BRUNSWICK	327	605	0	0	0	0	0	0
ONTARIO	8,273	4	1,381	0	0	0	0	0
QUEBEC	2,242	3,989	0	6,169	0	0	0	0
NPCC (CANADA)	10,042	4,598	1,381	6,169	0	0	0	0
FLORIDA	4,282	0	1,050	0	0	0	0	0
SOUTHERN	6,322	0	1,403	0	0	0	0	0
TVA	30	2	2,256	0	0	0	0	0
VACAR	8,424	0	1,617	0	0	0	0	0
SERC	19,058	2	6,326	0	0	0	0	0
GROUP A	1,861	98	1,697	0	0	0	0	0
GROUP B	1,274	1,766	47	0	0	0	0	0
GROUP C	634	2,165	55	0	0	0	0	0
SPP	3,769	4,029	1,799	0	0	0	0	0
NWPP (U.S.)	12,117	3,693	5,278	0	0	264	0	0
RMPA	3,694	540	0	0	0	0	0	0
AZ-NM	2,135	3,565[b]	1,581	0	0	0	0	0
CA-SNV	11,796	395[b]	3,620	0	0	580	0	0
WSCC (U.S.)	29,742	8,193	10,479	0	0	844	0	0

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
REGIONAL PLANNED TRANSMISSION LINE ADDITIONS

TABLE 2 --- UNDER CONSTRUCTION, COMMITTED OR PLANNED (1985-89)

	VOLTAGE (KV)							
	HVAC				HVDC			
REGION	230	345	500	765	250-300	400	450	500
ECAR	73	303	95	169	0	0	0	0
ERCOT	0	1,390	0	0	0	155	0	0
MAAC	183	0	60	0	0	0	0	0
MAIN	0	188	0	0	0	0	0	0
MAPP (U.S.)	182	287	535	0	0	0	0	0
NPCC (U.S.)	0	562	0	64	0	0	59	0
SERC	1,307	0	959	0	0	0	0	0
SPP	539	629	429	0	0	155	0	0
WSCC (U.S.)	1,893	1,788[b]	1,299	0	0	-844	0	1,363
NERC (U.S.)	4,177	5,147	3,377	233	0	-534	59	1,363
MAPP (CANADA)	419	0	75	0	-582	0	0	582
NPCC (CANADA)	374	93	400	189	0	0	48	0
WSCC (CANADA)	889	0[c]	296	0	0	0	0	0
NERC (CANADA)	1,682	93	771	189	-582	0	48	582

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
SUBREGIONAL PLANNED TRANSMISSION LINE ADDITIONS

TABLE 2 (CONT.) --- UNDER CONSTRUCTION, COMMITTED OR PLANNED (1985-89)

	VOLTAGE (KV)							
	HVAC				HVDC			
SUBREGION	230	345	500	765	250-300	400	450	500
CMNWLTH ED.	0	129	0	0	0	0	0	0
EAST MISSOURI	0	0	0	0	0	0	0	0
SO. CENT. ILL.	0	3	0	0	0	0	0	0
WIUM	0	56	0	0	0	0	0	0
MAIN	0	188	0	0	0	0	0	0
NEW YORK	0	432	0	64	0	0	0	0
NEW ENGLAND	0	130	0	0	0	0	59	0
NPCC (U.S.)	0	562	0	64	0	0	59	0
NEW BRUNSWICK	55	63	0	0	0	0	0	0
ONTARIO	154	0	400	0	0	0	0	0
QUEBEC	165	30	0	189	0	0	48	0
NPCC (CANADA)	374	93	400	189	0	0	48	0
FLORIDA	334	0	176	0	0	0	0	0
SOUTHERN	528	0	422	0	0	0	0	0
TVA	0	0	135	0	0	0	0	0
VACAR	445	0	226	0	0	0	0	0
SERC	1,307	0	959	0	0	0	0	0
GROUP A	323	0	429	0	0	0	0	0
GROUP B	216	311	0	0	0	155	0	0
GROUP C	0	318	0	0	0	0	0	0
SPP	539	629	429	0	0	155	0	0
NWPP (U.S.)	555	306	554	0	0	-264	0	264
RMPA	419	454	0	0	0	0	0	0
AZ-NM	386	977[b]	45	0	0	0	0	0
CA-SNV	533	51[b]	700	0	0	-580	0	1,099
WSCC (U.S.)	1,893	1,788	1,299	0	0	-844	0	1,363

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
REGIONAL PLANNED TRANSMISSION LINE ADDITIONS

TABLE 3 --- UNDER CONSTRUCTION, COMMITTED OR PLANNED (1990-94)

	VOLTAGE (KV)							
	HVAC				HVDC			
REGION	230	345	500	765	250-300	400	450	500
ECAR	10	567	196	0	0	0	0	0
ERCOT	0	745	0	0	0	0	0	0
MAAC	100	0	95	0	0	0	0	0
MAIN	0	138[d]	0	0	0	0	0	0
MAPP (U.S.)	145	526	225	0	0	0	0	0
NPCC (U.S.)	0	229	0	0	0	0	133	0
SERC	917	0	325	0	0	0	0	0
SPP	807	577	158	0	0	0	0	0
WSCC (U.S.)	963	155[b]	1,556	0	0	0	0	240
NERC (U.S.)	2,942	2,937	2,555	0	0	0	133	240
MAPP (CANADA)	734	0	0	0	0	0	0	0
NPCC (CANADA)	437	159	981	6	0	0	696	0
WSCC (CANADA)	601	79[c]	529	0	0	0	0	0
NERC (CANADA)	1,772	238	1,510	6	0	0	696	0

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
SUBREGIONAL PLANNED TRANSMISSION LINE ADDITIONS

TABLE 3 (CONT.) --- UNDER CONSTRUCTION, COMMITTED OR PLANNED (1990-94)

	VOLTAGE (KV)							
	HVAC				HVDC			
SUBREGION	230	345	500	765	250-300	400	450	500
CMNWLTH ED.	0	0	0	0	0	0	0	0
EAST MISSOURI	0	0	0	0	0	0	0	0
SO. CENT. ILL.	0	106	0	0	0	0	0	0
WIUM	0	32[e]	0	0	0	0	0	0
MAIN	0	138	0	0	0	0	0	0
NEW YORK	0	72	0	0	0	0	0	0
NEW ENGLAND	0	157	0	0	0	0	133	0
NPCC (U.S.)	0	229	0	0	0	0	133	0
NEW BRUNSWICK	0	0	0	0	0	0	0	0
ONTARIO	358	0	981	0	0	0	0	0
QUEBEC	79	159	0	6	0	0	696	0
NPCC (CANADA)	437	159	981	6	0	0	696	0
FLORIDA	49	0	15	0	0	0	0	0
SOUTHERN	368	0	130	0	0	0	0	0
TVA	0	0	36	0	0	0	0	0
VACAR	500	0	144	0	0	0	0	0
SERC	917	0	325	0	0	0	0	0
GROUP A	434	56	158	0	0	0	0	0
GROUP B	373	231	0	0	0	0	0	0
GROUP C	0	290	0	0	0	0	0	0
SPP	807	577	158	0	0	0	0	0
NWPP (U.S.)	349	13	42	0	0	0	0	0
RMPA	185	178	0	0	0	0	0	0
AZ-NM	119	140[b]	174	0	0	0	0	240
CA-SNV	310	-176[b]	1,340	0	0	0	0	0
WSCC (U.S.)	963	155	1,556	0	0	0	0	240

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
REGIONAL PLANNED TRANSMISSION LINE ADDITIONS

TABLE 4 --- TOTAL: EXISTING, UNDER CONSTRUCTION, COMMITTED OR PLANNED (12/31/94)

	VOLTAGE (KV)							
	HVAC				HVDC			
REGION	230	345	500	765	250-300	400	450	500
ECAR	1,120	12,507	1,103	2,018	0	0	0	0
ERCOT	0	8,195	0	0	0	155	0	0
MAAC	4,903	170	1,735	0	0	0	0	0
MAIN	261	5,239[f]	0	90	0	0	0	0
MAPP (U.S.)	7,196	5,433	1,400	0	465	436	0	0
NPCC (U.S.)	1,534	4,753	5	316	0	0	192	0
SERC	21,282	2	7,610	0	0	0	0	0
SPP	5,115	5,235	2,386	0	0	155	0	0
WSCC (U.S.)	32,598	10,136[b]	13,334	0	0	0	0	1,603
NERC (U.S.)	74,009	51,670	27,573	2,424	465	746	192	1,603
MAPP (CANADA)	5,132	0	205	0	0	0	557	582
NPCC (CANADA)	11,653	4,850	2,762	6,364	0	0	744	0
WSCC (CANADA)	6,337	343[c]	4,175	0	93	0	0	0
NERC (CANADA)	23,122	5,193	7,142	6,364	93	0	1,301	582

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL
SUBREGIONAL PLANNED TRANSMISSION LINE ADDITIONS

TABLE 4 (CONT.) --- TOTAL: EXISTING, UNDER CONSTRUCTION, COMMITTED OR PLANNED (12/31/94)

	VOLTAGE (KV)							
	HVAC				HVDC			
SUBREGION	230	345	500	765	250-300	400	450	500
CMNWLTH ED.	0	2,464	0	90	0	0	0	0
EAST MISSOURI	89	892	0	0	0	0	0	0
SO. CENT. ILL.	49	898	0	0	0	0	0	0
WIUM	123	985[f]	0	0	0	0	0	0
MAIN	261	5,239	0	90	0	0	0	0
NEW YORK	1,090	2,830	5	316	0	0	0	0
NEW ENGLAND	444	1,923	0	0	0	0	192	0
NPCC (U.S.)	1,534	4,753	5	316	0	0	192	0
NEW BRUNSWICK	382	668	0	0	0	0	0	0
ONTARIO	8,785	4	2,762	0	0	0	0	0
QUEBEC	2,486	4,178	0	6,364	0	0	744	0
NPCC (CANADA)	11,653	4,850	2,762	6,364	0	0	744	0
FLORIDA	4,665	0	1,241	0	0	0	0	0
SOUTHERN	7,218	0	1,955	0	0	0	0	0
TVA	30	2	2,427	0	0	0	0	0
VACAR	9,369	0	1,987	0	0	0	0	0
SERC	21,282	2	7,610	0	0	0	0	0
GROUP A	2,618	154	2,284	0	0	0	0	0
GROUP B	1,863	2,308	47	0	0	155	0	0
GROUP C	634	2,773	55	0	0	0	0	0
SPP	5,115	5,235	2,386	0	0	155	0	0
NWPP (U.S.)	13,021	4,012	5,874	0	0	0	0	264
RMPA	4,298	1,172	0	0	0	0	0	0
AZ-NM	2,640	4,682[b]	1,800	0	0	0	0	240
CA-SNV	12,639	270[b]	5,660	0	0	0	0	1,099
WSCC (U.S.)	32,598	10,136	13,334	0	0	0	0	1,603

Footnotes to Planned Transmission Line Additions

a/ Includes 34 miles designated for 345 kV but operated at 115 kV.

b/ Category includes 287 kV.

c/ Category includes 287 kV, 360 kV.

d/ Includes 32 miles designed for 345 kV but initially operated at 115 kV.

e/ Designed for 345 kV but initially operated at 115 kV.

f/ Includes 66 miles designated for 345 kV but initially operated at 115 kV.